

Service Manual

ORDER NO.
RRV3872

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

SC-LX81 SC-LX71

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
SC-LX81	HDLPWXJ	AC 220 V to 230 V/ 240 V	
SC-LX81	LFXJ	AC 110 V	
SC-LX71	HDLPWXJ	AC 220 V to 230 V/ 240 V	
SC-LX71	LFXJ	AC 110 V	

This service manual should be used together with the following manual(s):

Model	Order No.	Remarks
SC-LX81/HYSXJ5	RRV3841	

For SPECIFICATIONS and PANEL FACILITIES, refer to the operating instructions.

1. CONTRAST OF MISCELLANEOUS PARTS

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

● The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

● Screws adjacent to ▼ mark on product are used for disassembly.

● For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

● Nos. indicate the pages and Nos. in the service manual for the base model.

● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

560Ω → 56 x 10¹ → 561 RD1/4PU561J

47kΩ → 47 x 10³ → 473 RD1/4PU473J

0.5Ω → R50 RN2H50K

1Ω → 1R0 RS1P1R0K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ → 562 x 10¹ → 5621 RN1/4PC5621F

1.1 CONTRAST TABLE

(2) CONTRAST TABLE

SC-LX81/HYSXJ5, SC-LX81/HDLPWXJ, SC-LX81/LFXJ, SC-LX71/HDLPWXJ and SC-LX71/LFXJ are constructed the same except for the following:

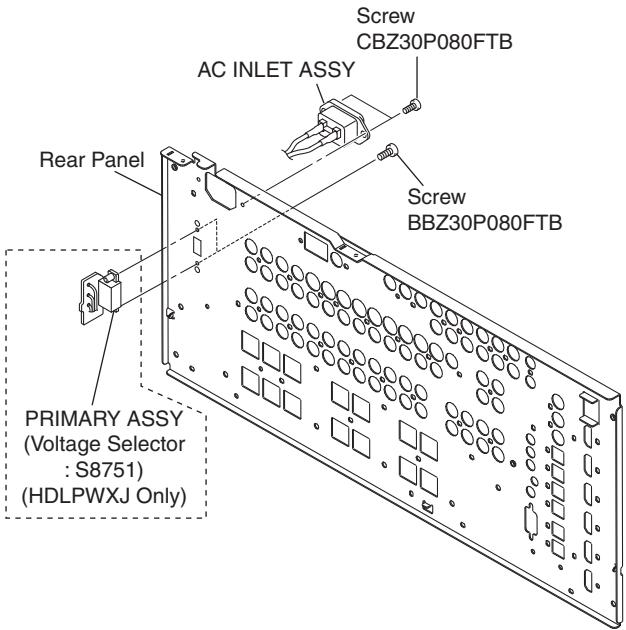
Mark	No.	Symbol and Description	SC-LX81/ HYSXJ5	SC-LX81/ HDLPWXJ	SC-LX81/ LFXJ	SC-LX71/ HDLPWXJ	SC-LX71/ LFXJ	Remarks
C	NSP	PCB ASSEMBLIES						
		1..PRIM_DISPLAY ASSY	AWM8120	AWM8122	AWM8123	AWM8131	AWM8132	
	P91-6	2..PRIMARY ASSY	AWX9166	AWX9168	AWX9169	AWX9168	AWX9169	
	NSP	1..DIGITAL MOTHER ASSY	AWP7058	AWP7060	AWP7061	AWP7066	AWP7067	
D	P89-2	2..D-MOTHER ASSY	AWX9196	AWX9198	AWX9199	AWX9204	AWX9205	
	NSP	1..AUDIO ASSY	AWR7071	AWR7073	AWR7073	AWR7073	AWR7073	
	P91-12	2..AUDIO ASSY	AWX9206	AWX9208	AWX9208	AWX9208	AWX9208	
	P89-11	1..HDMI NETWORK ASSY	AWX9234	AWX9135	AWX9135	AWX9190	AWX9190	
E	P91-14	1..FM/AM Tuner Unit	AXX7248	AXX7251	AXX7251	AXX7251	AXX7251	
	P85-4	PACKING						
		Operating Instructions (English)	ARB7393	ARB7394	Not used	ARB7394	Not used	
	P85-4	Operating Instructions (Chinese)	Not used	Not used	ARC7805	Not used	ARC7805	
F	P85-5	Operating Instructions (French)	ARC7799	Not used	Not used	Not used	Not used	
	P85-5	Operating Instructions (Spanish)	Not used	ARC7806	Not used	ARC7806	Not used	
	P85-6	Operating Instructions (German)	ARC7800	Not used	Not used	Not used	Not used	
	P85-7	Operating Instructions (Italian)	ARC7801	Not used	Not used	Not used	Not used	
F	P85-8	Operating Instructions (Spanish)	ARC7802	Not used	Not used	Not used	Not used	
	P85-9	Operating Instructions (Dutch)	ARC7803	Not used	Not used	Not used	Not used	
	P85-10	Operating Instructions (Russian)	ARC7804	Not used	Not used	Not used	Not used	
	NSP	Warranty Card EU	ARY7128	Not used	Not used	Not used	Not used	
F	⚠	P85-13 Power Cord	ADG7062	ADG7062	ADG7076	ADG7062	ADG7076	
	P85-20	Packing Case	AHD8603	AHD8607	AHD8605	AHD8608	AHD8606	
	P85-23	Label (WEEE)	ARW7322	Not used	Not used	Not used	Not used	
		Power Plug Adapter	Not used	AKX7022	Not used	AKX7022	Not used	
F		Caution 220-230V	Not used	ARR7023	Not used	ARR7023	Not used	
		Caution Card SD SB	Not used	ARM7063	Not used	ARM7063	Not used	

Mark	No.	Symbol and Description	SC-LX81/ HYSXJ5	SC-LX81/ HDLPWXJ	SC-LX81/ LFXJ	SC-LX71/ HDLPWXJ	SC-LX71/ LFXJ	Remarks
⚠	P89-12	CHASSIS SECTION Power Transformer (T1501)	ATS7423	ATS7423	ATS7425	ATS7423	ATS7425	
⚠	P91-15	REAR PANEL SECTION Fuse (T5.0AL) FU1	REK1029	REK1029	Not used	REK1029	Not used	
⚠	P91-15	Fuse (T10AL) FU1	Not used	Not used	DEK1045	Not used	DEK1045	
	P91-33	Rear Panel	ANC8526	ANC8529	ANC8528	ANC8536	ANC8535	
NSP	P91-65	Fuse Card(T5AL250V)	AAX7098	AAX7098	Not used	AAX7098	Not used	
NSP	P91-65	Fuse Card(T10AL250V)	Not used	Not used	AAX7970	Not used	AAX7970	
NSP		CPA Label	Not used	AAX8152	Not used	AAX8153	Not used	
	P93-22	FRONT PANEL SECTION Front Panel	ANB7483	ANB7484	ANB7484	ANB7488	ANB7488	

Notes : For PCB assemblies, Refer to “1.2 CONTRAST OF PCB ASSEMBLIES” and “2. SCHEMATIC DIAGRAM”.

■ Exploded Views

・REAR PANEL SECTION



1.2 CONTRAST OF PCB ASSEMBLIES

A F AUDIO ASSY

AWX9206 and AWX9208 are constructed the same except for the following:

Mark	Symbol and Description	AWX9206	AWX9208	Remarks
	IC5651 RDS Decoder IC	LC72725KM	Not used	
	D5651	1SS352	Not used	
	X5651 Crystal Resonator (4.332 MHz)	ASS7004	Not used	
	L5651	QTL1013	Not used	
	R5003, R5004	RS1/16S561J	RS1/16S331J	
	R5652, R5653	RS1/16S220J	Not used	
	R5657	RS1/16S473J	Not used	
	C5001, C5002	CCSRCH221J50	Not used	
	C5005, C5006	CCSRCH331J50	Not used	
	C5009, C5010, C5653	CCSRCH561J50	Not used	
	C5031-C5034, C5041, C5042, C5051	CCSRCH101J50	Not used	
	C5043, C5044, C5113, C5114	CCSRCH220J50	Not used	
	C5133, C5134	CCSRCH220J50	Not used	
	C5052-C5054, C5071-C5074	CCSRCH101J50	Not used	
	C5081-C5084, C5091-C5094	CCSRCH101J50	Not used	
	C5101-C5104, C5111, C5112	CCSRCH101J50	Not used	
	C5121-C5124, C5131, C5132	CCSRCH101J50	Not used	
	C5141-C5144, C5151-C5154	CCSRCH101J50	Not used	
	C5161-C5164, C5171-C5174	CCSRCH101J50	Not used	
	C5181-C5184	CCSRCH101J50	Not used	
	C5651	CEAT101M10	Not used	
	C5652	CCSRCH102J50	Not used	
	C5654	CKSRYB103K50	Not used	
	C5655, C5657	CCSRCH270J50	Not used	
	C5656	CEAT100M50	Not used	
	C5658	CKSRYB472K50	Not used	

B F D-MOTHER ASSY (SC-LX81)

AWX9196, AWX9198 and AWX9199 are constructed the same except for the following:

Mark	Symbol and Description	AWX9196	AWX9198	AWX9199	Remarks
	R2010	RS1/16S473J	RS1/16S473J	RS1/16S104J	
	R2012	RS1/16S473J	RS1/16S473J	RS1/16S333J	
	R2013	Not used	RS1/16S473J	Not used	*1
	R2058, R2059	RS1/16SS152J	Not used	Not used	
	R2060	RS1/16SS101J	Not used	Not used	
	R2134, R2135	RS1/16SS104J	Not used	Not used	

*1 : Refer to AWX9196 on page 96 of RRV3841.

B F D-MOTHER ASSY (SC-LX71)

AWX9202, AWX9204 and AWX9205 are constructed the same except for the following:

Mark	Symbol and Description	AWX9202	AWX9204	AWX9205	Remarks
	R2010	RS1/16S473J	Not used	RS1/16S473J	
	R2011	Not used	Not used	RS1/16S473J	*1
	R2012	Not used	RS1/16S473J	Not used	*1
	R2058, R2059	RS1/16SS152J	Not used	Not used	
	R2060	RS1/16SS101J	Not used	Not used	
	R2134, R2135	RS1/16SS104J	Not used	Not used	

*1 : Refer to AWX9202 on page 96 of RRV3841.

E F HDMI NETWORK ASSY (SC-LX81)

AWX9234 and AWX9135 are constructed the same except for the following:

Mark	Symbol and Description	AWX9234	AWX9135	Remarks
	R14 R599, R1795 R1895 C157 C159, C160, C1400 C401, C402, C503, C1301 C932 C1349, C1917 C1705, C1906	RS1/16SS332J RS1/16SS103J RS1/16SS182J VCH1234 ACH7306 VCH1234 VCH1268 CCSSCH471J16 VCH1234	Not used Not used RS1/16SS0R0J Not used Not used CEVW101M16 Not used CKSSYB471K50 CEVW221M4	

E F HDMI NETWORK ASSY (SC-LX71)

AWX9235 and AWX9190 are constructed the same except for the following:

Mark	Symbol and Description	AWX9235	AWX9190	Remarks
	R14 R599, R1795 R1895 C157 C159, C160, C1400 C401, C402, C503, C1301 C932 C1349, C1917 C1705, C1906	RS1/16SS332J RS1/16SS103J RS1/16SS182J VCH1234 ACH7306 VCH1234 VCH1268 CCSSCH471J16 VCH1234	Not used Not used RS1/16SS0R0J Not used Not used CEVW101M16 Not used CKSSYB471K50 CEVW221M4	

T F PRIMARY ASSY

AWX9166, AWX9168 and AWX9169 are constructed the same except for the following:

Mark	Symbol and Description	AWX9166	AWX9168	AWX9169	Remarks
⚠	T8701	ATT7040	ATT7040	ATT7100	
	KN8703 Screw Plate	VNE1948	Not used	VNE1948	
⚠	S8751 Voltage Selector	Not used	AKX7020	Not used	
⚠	JP8701 Board In Wire	Not used	ADX7642	Not used	
⚠	JP8702 Board In Wire	Not used	ADX7643	Not used	
⚠	JP8703 Board In Wire	Not used	ADX7641	Not used	

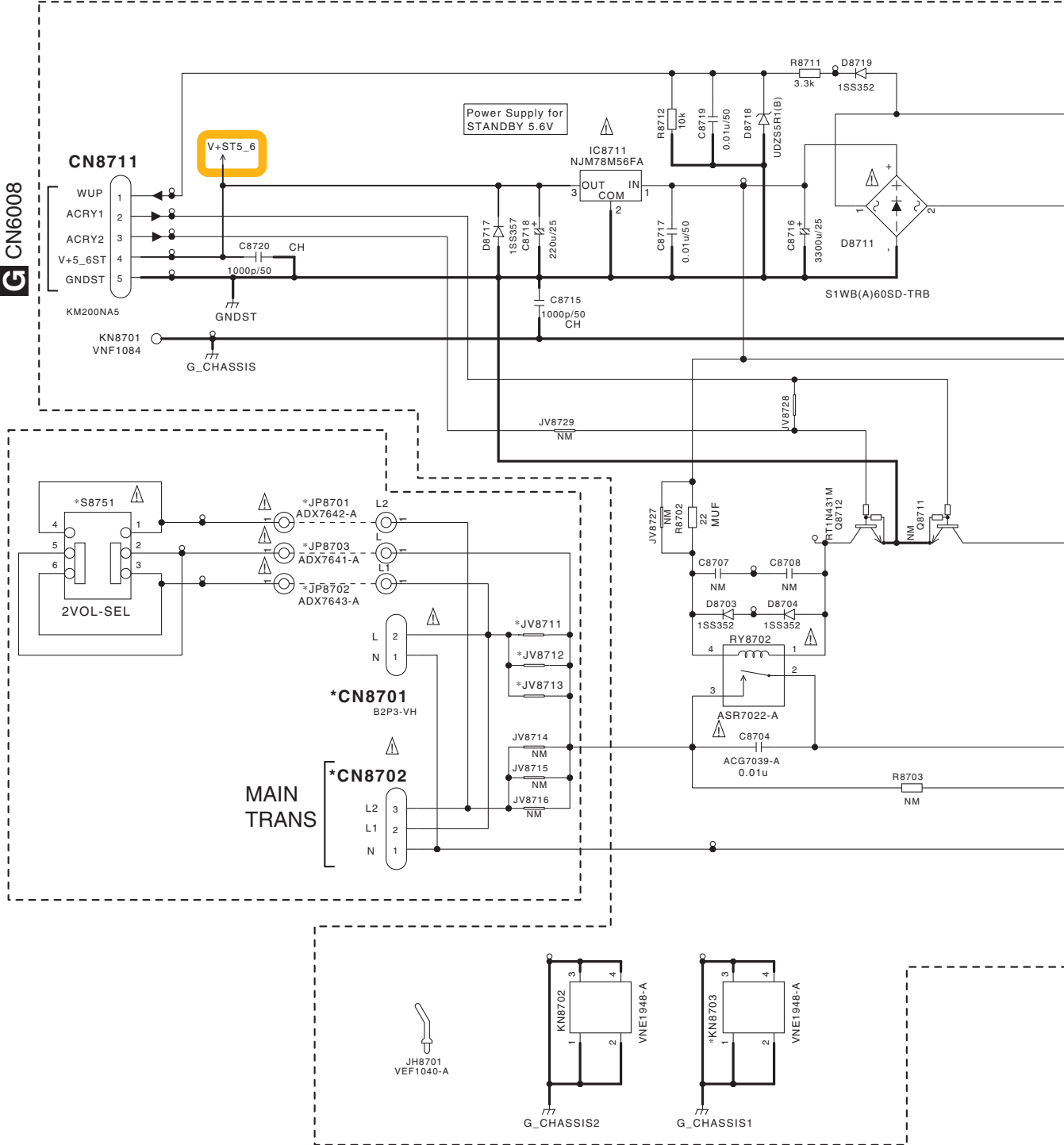
2. SCHEMATIC DIAGRAM

2.1 PRIMARY ASSY

A

	AWX9168	AWX9169
CN8701	NM	NM
CN8702	B3P5-VH	B3P5-VH
JP8701	ADX7642-A	NM
JP8702	ADX7643-A	NM
JP8703	ADX7641-A	NM
JP8701_1	ADX7642-A_1	NM
JP8702_1	ADX7643-A_1	NM
JP8703_1	ADX7641-A_1	NM
JV8711	NM	
JV8712	NM	
JV8713	NM	
S8751	AKX7020-A	NM

B



D

E

F

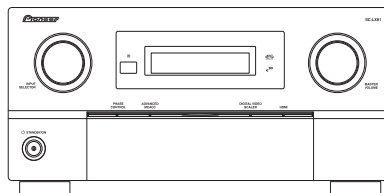


TF PRIMARY ASSY
(HDLPWXJ : AWX9168)
(LFXJ : AWX9169)



Pioneer

Service Manual



SC-LX81

ORDER NO.
RRV3841

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

SC-LX81

SC-LX71

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
SC-LX81	HYSXJ5	AC 220 V to 230 V	
SC-LX71	HYSXJ5	AC 220 V to 230 V	



For details, refer to "Important Check Points for good servicing".

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A [Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

- ① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

- ② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification (addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

- ③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

- ④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

- ⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

- ⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

- ⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

- ⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

- ⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

- ⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

E 3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

A
- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 °C.
Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

■

Do NOT use a soldering iron whose tip temperature cannot be controlled.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

B

The following lead-free solders are available as service parts:

- Parts numbers of lead-free solder:
GYP1006 1.0 in dia.
GYP1007 0.6 in dia.
GYP1008 0.3 in dia.

■

1.2 NOTES ON REPLACING PARTS

The part listed below is difficult to replace as a discrete component part.
When the part listed in the table is defective, replace whole Assy.

C

ASSY NAME	PCB ASSY Part No.	Parts that is Difficult to Replace			
		Ref No.	FUNCTION	Part No.	Remarks
HDMI NETWORK ASSY	SC-LX81: AWX9234	IC101	HDMI Receiver	SII9135CTU	IC with heat-pad
	SC-LX71: AWX9235	IC701	MEDIA Processor	DM850E	IC with heat-pad
		IC791	iPod Co-Processor	341S2154	IC with heat-pad

■

D

■

E

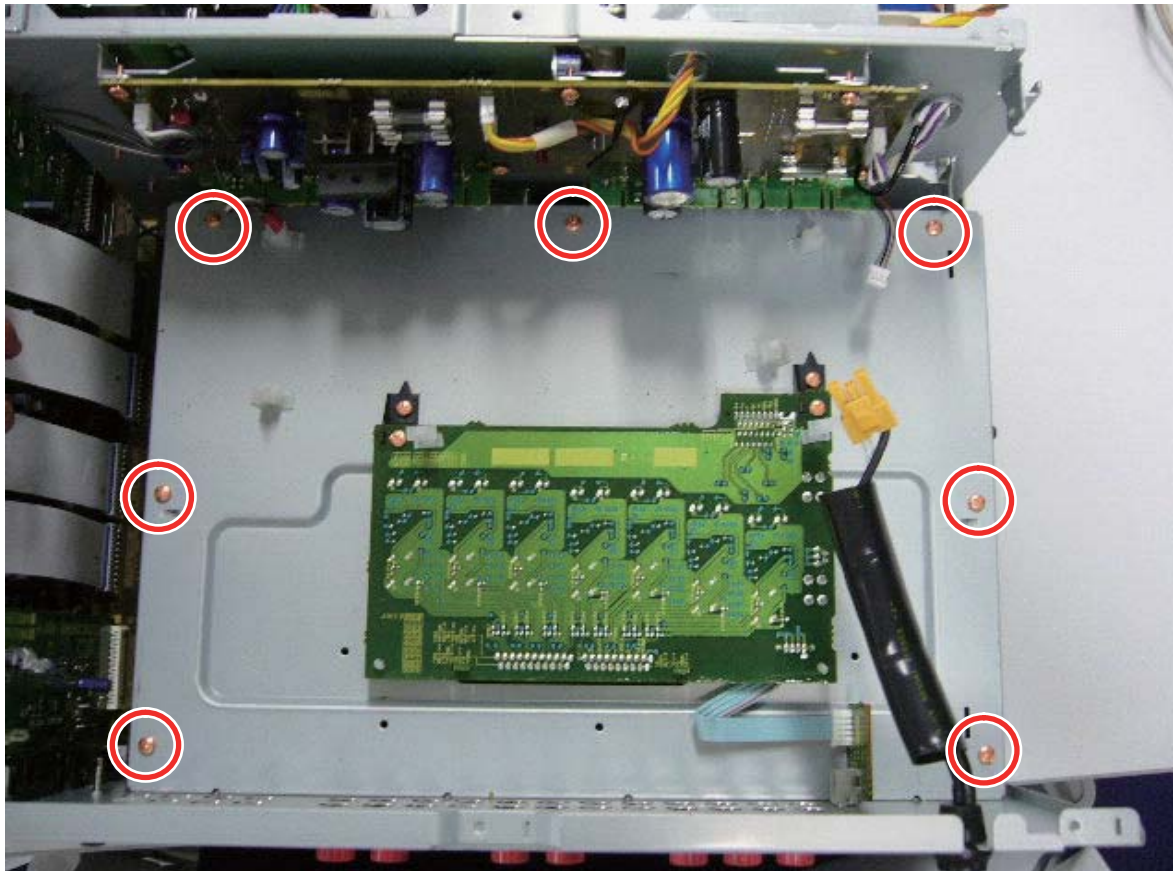
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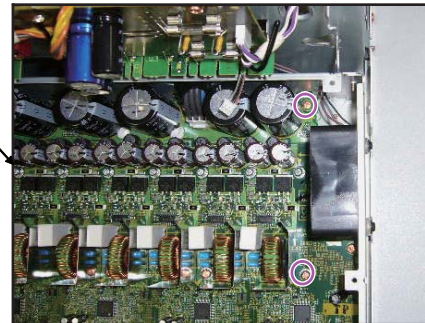
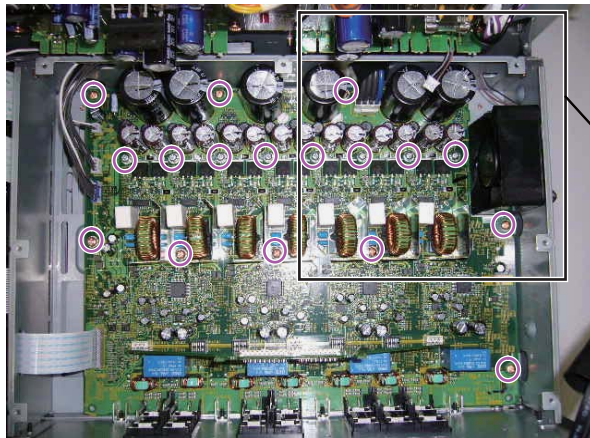
1.3 NOTES ON ASSEMBLING

When assembling the ICE amplifier block, please note the following points of screws to prevent from short circuit.

The following 7 points of screws must always be used AMZ30P060FTC



Points to be watched for swarf



If a screw at any of these points needs to be removed for service, be sure to check that the swarf is not on the screw before refastening.

2. SPECIFICATIONS

2.1 ACCESSORIES

A

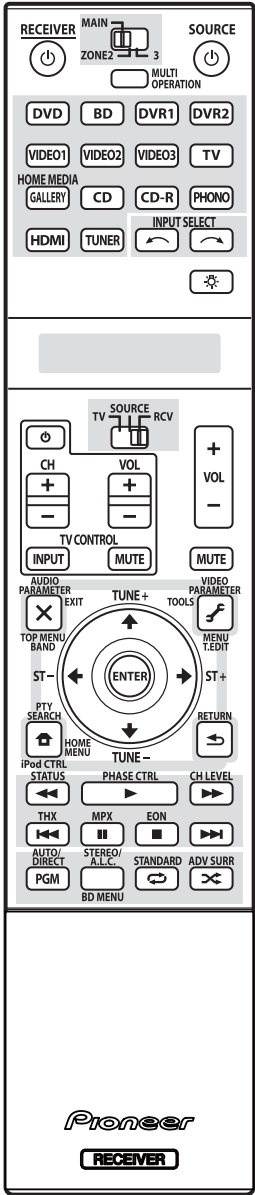
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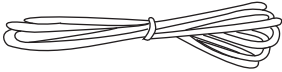
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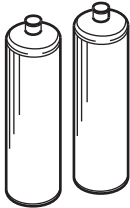
Remote Control Unit
(AXD7521)



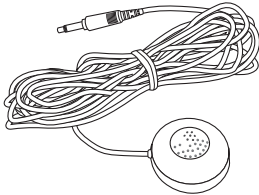
AM Loop Antenna
(ATB7013)



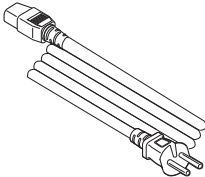
FM Wire Antenna
(ADH7030)



AA/IEC R6P
Dry Cell Batteries



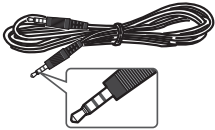
Setup Microphone
(for Auto MCACC setup)
(APM7008)



Power Cord
(ADG7062)

- Caution Sheet SP
- Warranty Card
- Operating Instructions

SERVICE PARTS



SR+ mini-plug cable
(ADE7095)

2.2 SPECIFICATIONS

Specifications

Amplifier Section

Multi channel simultaneous power output (1 kHz, 1 %, 8 Ω)
7ch total 700 W (LX81), 630 W (LX71)
Continuous Power Output (Multichannel)
(DIN 1 kHz, THD 1 %, 6 Ω)
Front. 190 W + 190 W (LX81), 180 W + 180 W (LX71)
Center 190 W (LX81), 180 W (LX71)
Surround 190 W + 190 W (LX81)
180 W + 180 W (LX71)
Surround back 190 W + 190 W (LX81)
180 W + 180 W (LX71)
(DIN 1 kHz, THD 1 %, 8 Ω)
Front. 160 W + 160 W (LX81), 150 W + 150 W (LX71)
Center 160 W (LX81), 150 W (LX71)
Surround 160 W + 160 W (LX81)
150 W + 150 W (LX71)
Surround back 160 W + 160 W (LX81)
150 W + 150 W (LX71)
Total harmonic distortion. 0.05 %
(20 Hz to 20 kHz, 130 W, 8 Ω)
Rated Power Output – Stereo (20 Hz to 20 kHz, 0.09 %, 8 Ω)
..... 140 W + 140 W

- The above specifications are applicable when the power supply is 230 V.

Audio Section

Input (Sensitivity/Impedance)
PHONO MM 4.2 mV/47 k Ω
LINE 335 mV/47 k Ω
Frequency Response (LINE). 5 Hz to 100 000 Hz dB
Output (Level/Impedance)
REC 335 mV/2.2 k Ω
Signal-to-Noise Ratio (IHF, short circuited, A network)
LINE 103 dB
Signal-to-Noise Ratio
[DIN (continuous rated power output/50 mW)]
LINE 92 dB/65 dB

Composite Video / S-Video Section

Input (Sensitivity/Impedance) 1 Vp-p/75 Ω
Output (Level/Impedance) 1 Vp-p/75 Ω
Signal-to-Noise Ratio 65 dB
Frequency Response 5 Hz to 10 MHz

Component Video Section

Input (Sensitivity/Impedance) 1 Vp-p/75 Ω
Output (Level/Impedance) 1 Vp-p/75 Ω
Signal-to-Noise Ratio 65 dB
Frequency Response 5 Hz to 100 MHz

- Specifications and the design are subject to possible modifications without notice, due to improvements.

Manufactured under license from Dolby Laboratories.
"Dolby", "Pro Logic", "Surround EX" and the double-D symbol are trademarks of Dolby Laboratories.

HDMI Section

Input 19-pin
Output 19-pin (5 V, 100 mA)

Network Section

LAN terminal 10 BASE-T/100 BASE-TX

USB Section

USB terminal USB2.0 Full Speed

FM Tuner Section

Frequency Range 87.5 MHz to 108 MHz
Antenna Input 75 Ω unbalanced

AM Tuner Section

Frequency Range 531 kHz to 1602 kHz (9 kHz step)
Antenna Loop antenna

Miscellaneous

Power Requirements. AC 220 V to 230 V, 50 Hz/60 Hz
Power Consumption 330 W
In standby 0.5 W (HDMI Control OFF)
0.7 W (HDMI Control ON)
Dimensions 420 (W) mm x 200 (H) mm x 459.5 (D) mm
Weight (without package). 18.5 kg

Furnished Parts

Setup microphone (for Auto MCACC Setup) 1
AA/IEC R6P dry cell batteries 2
Remote control unit. 1
AM loop antenna 1
FM wire antenna 1
Power cord 1
Warranty card 1
Operating instructions



Note

- Specifications and the design are subject to possible modifications without notice, due to improvements.

Manufactured under license under U.S. Patent #'s:
5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616;
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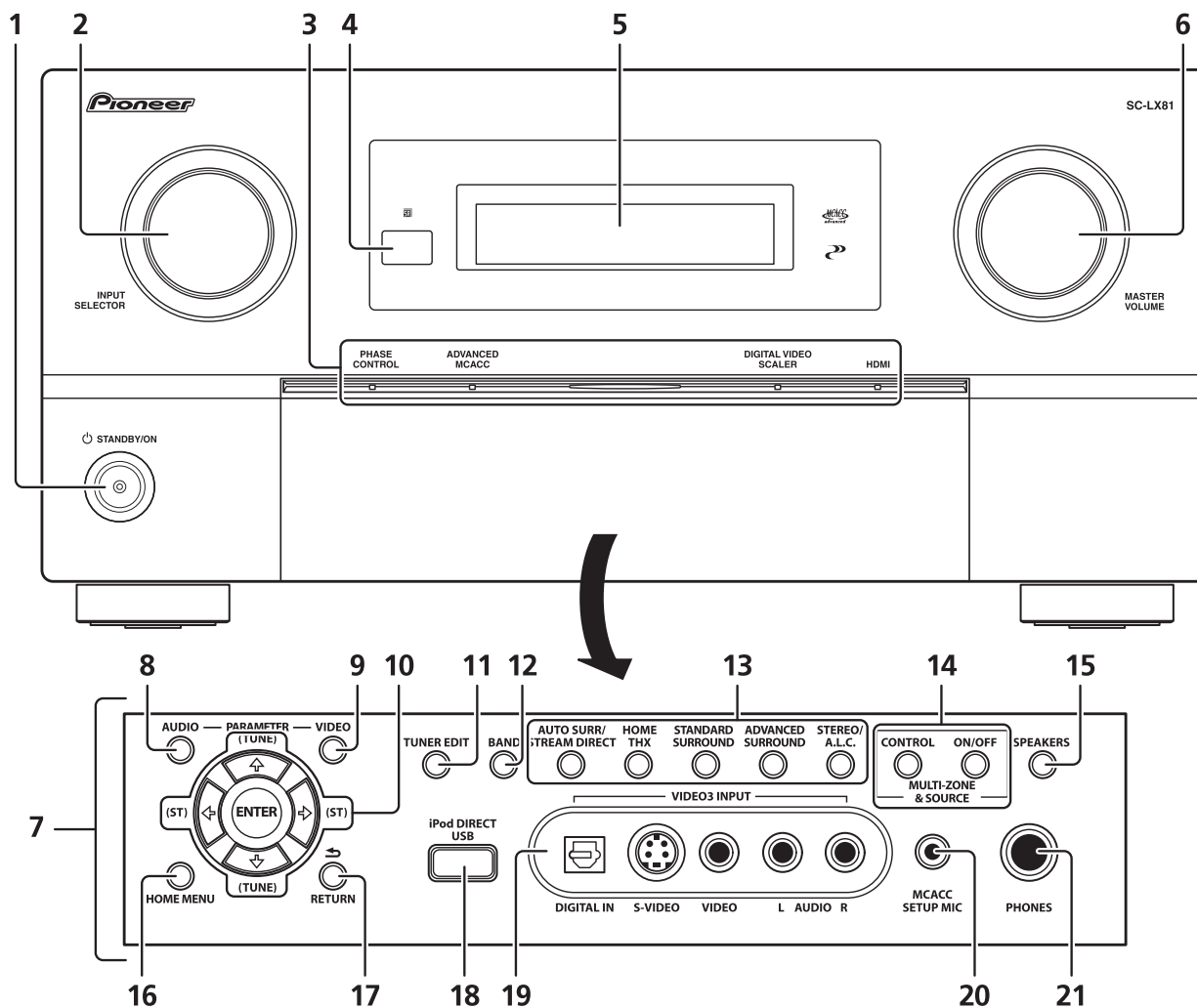
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2.3 PANEL FACILITIES

[1] Front Panel



1 **STANDBY/ON**

Switches the receiver between on and standby. Power indicator lights when the receiver is on.

2 **INPUT SELECTOR** dial

Use to select an input source.

- 3 PHASE CONTROL indicator** – Lights to indicate Phase Control or Full Band Phase Control is selected.
- ADVANCED MCACC indicator** – Lights when one of the Selecting MCACC presets is selected.
- DIGITAL VIDEO SCALER indicator** – Lights when Resolution is set to a setting other than **PURE** (for example, when the video input signal is upscaled).
- HDMI indicator** – Blinks when connecting an HDMI-equipped component; lights when the component is connected.

4 **Remote sensor**

Receives the signals from the remote control.

5 **Character display**

6 **MASTER VOLUME** dial

7 **Front panel controls**

To access the front panel controls, push gently on the lower third portion of the panel with your finger.

8 **AUDIO PARAMETER**

Use to access the Audio options.

9 **VIDEO PARAMETER**

Use to access the Video options.

10 **↑/↓/←/→ (TUNE/ST) /ENTER**

Use the arrow buttons when setting up your **HOME MENU**. Use **TUNE ↑/↓** to find radio frequencies and use **ST ←/→** to find preset stations.

11 **TUNER EDIT**

Use with **↑/↓/←/→/ENTER** to memorize and name stations for recall.

12 BAND

Switches between AM and FM radio bands.

13 Listening mode buttons

AUTO SURR/STREAM DIRECT – Press to select Auto Surround or Stream Direct listening.

HOME THX – Press to select a Home THX listening mode.

STANDARD SURROUND – Press for Standard decoding and to switch between the various **Dolby Pro** Logic IIx and Neo:6 options.

ADVANCED SURROUND – Use to switch between the various surround modes.

STEREO/A.L.C. – Switches between stereo playback, Auto level control stereo mode and Front Stage Surround Advance modes.

14 MULTI-ZONE & SOURCE controls

If you've made MULTI-ZONE connections use these controls to control the sub zone from the main zone.

15 SPEAKERS

Use to change the speaker system.

16 HOME MENU

Press to access the **HOME MENU**.

17 RETURN

Press to confirm and exit the current menu screen.

18 iPod DIRECT USB terminal

Use to connect your Apple iPod as an audio source, or connect a USB audio device for playback.

19 VIDEO 3 INPUT

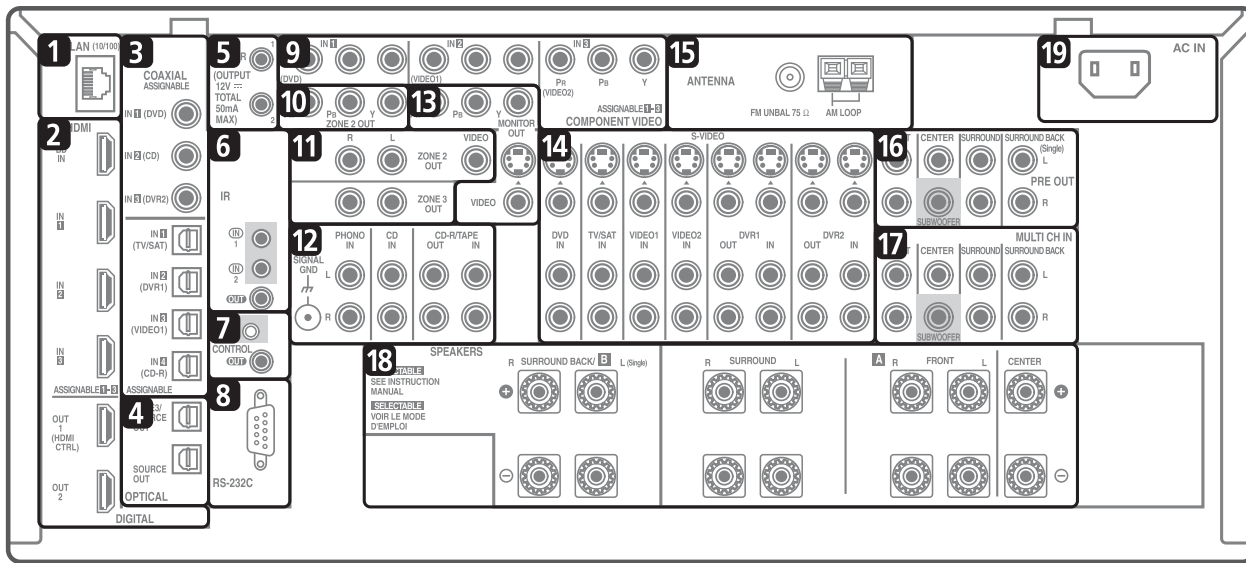
20 MCACC SETUP MIC jack

Use to connect the supplied microphone.

21 PHONES jack

Use to connect headphones. When the headphones are connected, there is no sound output from the speakers.

A [2] Rear Panel



C Caution

- Before making or changing the connections, switch off the power and disconnect the power cord from the power outlet. Plugging in should be the final step.

1 LAN (10/100) terminal

2 HDMI connectors (x6 (SC-LX81), x5 (SC-LX71))

Multiple inputs and one (SC-LX71) or two (SC-LX81) outputs for high-quality audio/video connection to compatible HDMI devices.

3 Optical and coaxial digital audio inputs (x7 (SC-LX81), x6 (SC-LX71))

Use for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

4 Optical digital audio outputs (x2)

Use for recording to a CD or MiniDisc recorder.

ZONE3/SOURCE OUT jack is also used for MULTI-ZONE connections.

5 12 V trigger jacks (total 50 mA max.) (x2)

Use to switch components in your system on and off according to the input function of the receiver.

6 Remote inputs/output

Use for connection to an external remote control sensor for use in a MULTI-ZONE setup, for example.

7 Control input/output

Use to connect other Pioneer components so that you can control all your equipment from a single IR remote sensor.

8 RS-232C connector

Use for connection to a PC for graphical output when using Advanced MCACC or Full Band Phase Control.

9 Component video inputs (x3)

Use the inputs to connect any video source that has component video output, such as a DVD player.

10 SC-LX81 only: ZONE 2 component video output

Use to connect monitors or TVs in a separate room.

11 MULTI-ZONE audio/video outputs

Use to connect a second or third amplifier and monitors or TVs in a separate room.

12 Stereo analog audio source inputs/(outputs) (x4)

Use for connection to audio sources such as CD players, tape decks, turntables, etc.

13 Composite, S-Video and Component monitor outputs

Use to connect monitors and TVs.

14 Audio/video source inputs/(outputs) (x8)

Use for connection to audio/visual sources, such as DVD players/recorders, VCRs, etc. Each set of inputs has jacks for composite video, S-Video and stereo analog audio.

15 AM and FM antenna terminals

Use to connect indoor or outdoor antennas for radio broadcasts.

16 Multichannel pre-amplifier outputs

Use to connect separate amplifiers for front, center, surround, surround back and subwoofer channels.

17 Multichannel analog audio inputs

7.1 channel inputs for connection to a DVD player with multichannel analog outputs.

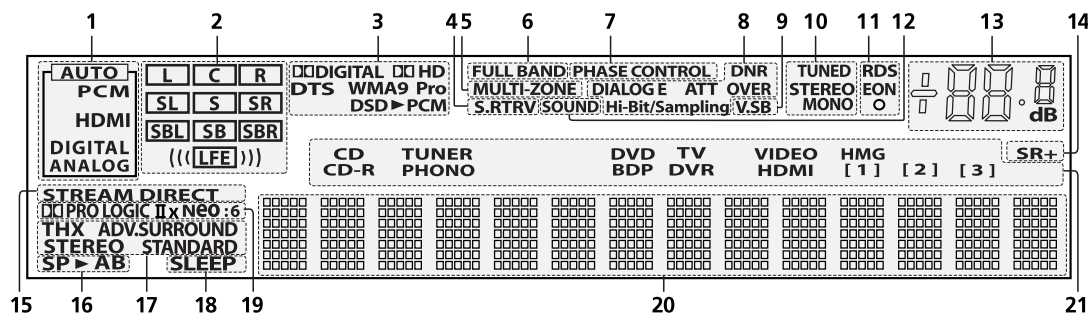
18 Speaker terminals

Use for connection to the main front, center, surround and surround back speakers.

19 AC power inlet

Connect the supplied power cord here.

[3] Display



1 SIGNAL indicators

Light to indicate the currently selected input signal.

AUTO lights when the receiver is set to select the input signal automatically.

2 Program format indicators

These change according to which channels are active in digital sources.

L – Left front channel

C – Center channel

R – Right front channel

SL – Left surround channel

S – Surround channel (mono)

SR – Right surround channel

SBL – Left surround back channel

SB – Surround back channel (mono)

SBR – Right surround back channel

LFE – Low frequency effects channel (the ((())) indicators light when an LFE signal is being input)

3 Digital format indicators

Light when a signal encoded in the corresponding format is detected (**DSD > PCM** lights during DSD (Digital Stream Direct) to PCM conversion with SACDs).

4 S.RTRV

Lights when the Sound Retriever is switched on.

5 MULTI-ZONE

Lights when the MULTI-ZONE feature is active.

6 FULL BAND

Lights when the Full Band Phase Control is switched on.

7 PHASE CONTROL

Lights when the Phase Control or Full Band Phase Control is switched on.

8 Sound processing indicators

Light according to the active Audio parameter(s) and/or **ANALOG ATT**.

9 V.SB

Lights during Virtual surround back processing.

10 TUNER indicators

TUNED – Lights when a broadcast is being received.

STEREO – Lights when a stereo FM broadcast is being received in auto stereo mode.

MONO – Lights when the mono mode is set using **MPX**.

11 EON/RDS indicators

EON – Lights when the EON mode is set (flashes during EON reception). The **o** indicator lights when the current station carries the EON service.

RDS – Lights when an RDS broadcast is received.

12 SOUND

Lights when any of the Midnight, Loudness or tone controls feature is selected.

13 Master volume level

Shows the overall volume level. **–80dB** indicates the minimum level, and **+12dB** indicates the maximum level.

14 SR+

Lights when the SR+ mode is switched on.

15 STREAM DIRECT

Lights when Direct/Pure Direct is selected.

16 Speaker indicators

Lights to indicate the current speaker system, **A** and/or **B**.

17 Listening mode indicators

THX – Lights when one of the Home THX modes is selected.

ADV.SURROUND – Lights when one of the Advanced Surround modes has been selected.

STEREO – Lights when stereo listening is switched on.

STANDARD – Lights when one of the Standard Surround modes is switched on.

18 SLEEP

Lights when the receiver is in sleep mode.

19 Matrix decoding format indicators

PRO LOGIC IIx – This lights to indicate **PRO** Logic II / **PRO** Logic IIx decoding.

Neo:6 – When one of the Neo:6 modes of the receiver is on, this lights to indicate Neo:6 processing.

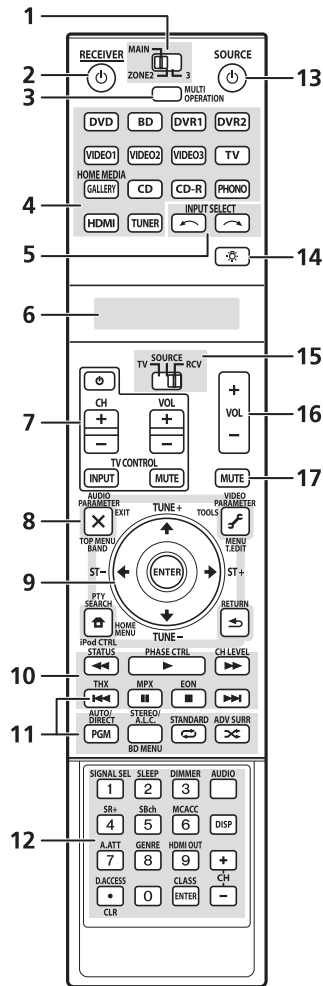
20 Character display

Displays various system information.

21 Input source indicators

Light to indicate the input source you have selected.

A [4] Remote Control



The remote has been conveniently color-coded according to component control using the following system:

- **White** – Receiver control, TV Control
- **Blue** – Other controls

1 MULTI-ZONE operation selector switch

Switch to perform operations in the main zone, zone 2 and zone 3.

2 RECEIVER

This switches between standby and on for this receiver.

3 MULTI OPERATION

Use this button to perform multi operations.

4 Input source buttons

Press to select control of other components.

F 5 INPUT SELECT

Use to select the input source.

6 Character display (LCD)

This display shows information when transmitting control signals.

The following commands are shown when you're setting the remote to control other components:

SETUP – Indicates the setup mode, from which you choose the options below.

PRESET –

LEARNING –

MULTI OP –

SYS OFF –

DIRECT F –

RENAME –

ERASE –

RESET –

READ ID –

7 TV CONTROL buttons

These buttons are dedicated to control the TV assigned to **TV** operation selector switch. Thus if you only have one TV to hook up to this system assign it to the **TV** operation selector switch.

 – Use to turn on/off the power of the TV.

VOL +/- – Use to adjust the volume on your TV.

INPUT – Use to select the TV input signal.

CH +/- – Use to select channels.

MUTE – Use to mute the sound or cancel the mute mode.

8 Tuner/component control buttons/HOME MENU

These button controls can be accessed after you have selected the corresponding input source button (**DVD**, **DVR 1**, **TV**, etc.).

Set the operation selector switch to **RCV** to access the following controls:

AUDIO PARAMETER – Use to access the Audio options.

VIDEO PARAMETER – Use to access the Video options.

HOME MENU – Use to access the **HOME MENU**

RETURN – Press to confirm and exit the current menu screen (also use to return to the previous menu with DVDs or to select closed captioning with DTV).

9 /// (TUNE +/-/ST +/-) /ENTER

Use the arrow buttons when setting up your surround sound system and the Audio or Video options. Also used to control DVD menus/options and for deck 1 of a double cassette deck player. Use **TUNE +/-** (/) to find radio frequencies and use **ST +/-** (/) to find preset stations.

10 Component control buttons

The main buttons (, , etc.) are used to control a component after you have selected it using the input source buttons.

The controls above these buttons can be accessed after you have selected the corresponding input source button (for example **DVD**, **DVR 1** or **TV**). These buttons also function as described below.

Press **TUNER** first to access:

MPX – Switches between stereo and mono reception of FM broadcasts. If the signal is weak, then switching to mono will improve the sound quality.

NOISE CUT MODE 1 to 2 can be selected when receiving AM broadcasts.

EON – Use to search for programs that are broadcasting traffic or news information.

Set the operation selector switch to **RCV** first to access:

STATUS – Press to check selected receiver settings.

PHASE CTRL – Press to switch on/off Phase Control or Full Band Phase Control.

CH LEVEL – Press repeatedly to select a channel, then use **◀/▶** to adjust the level.

11 Receiver controls

AUTO/DIRECT – Press to select Auto Surround or Stream Direct listening.

STEREO/A.L.C. – Switches between the stereo playback mode and the Front Stage Surround Advance mode.

STANDARD – Press for Standard decoding and to switch between the various **■** Pro Logic IIx and Neo:6 options.

ADV SURR – Use to switch between the various surround modes.

THX – Press to select a Home THX listening mode.

12 Number buttons and other receiver/component controls

Use the number buttons to directly select a radio frequency or the tracks on a CD, DVD, etc.

ENTER can be used to enter commands for TV or DTV.

After set the remote control operation switch to **RCV**:

SIGNAL SEL – Use to select an input signal.

SLEEP – Use to put the receiver in sleep mode and select the amount of time before sleep.

DIMMER – Dims or brightens the display.

SR+ – Switches the SR+ mode on/off.

SBch – Use to select the surround/virtual surround back channel mode.

MCACC – Press to switch between MCACC presets.

A.ATT – Attenuates (lowers) the level of an analog input signal to prevent distortion.

GENRE – Automatically selects the most appropriate Advanced Surround mode for the genre of the source currently being played back (this feature is available only when a Pioneer DVD recorder supporting HDMI Control is connected to this receiver via HDMI).

SC-LX81 only: **HDMI OUT** – Switch the HDMI output terminal.

Press **TUNER** first to access:

D.ACCESS – After pressing, you can access a radio station directly using the number buttons.

CLASS – Switches between the three banks (classes) of radio station presets.

13 SOURCE

Press to turn on/off other components connected to the receiver.

14 Remote control illumination button

Press to turn on/off the illumination of some of the buttons and the LCD light.

15 Remote control operation selector switch

Set to **RCV** to operate the receiver, **TV** or **SOURCE** to operate the TV or the source device.

When this switch is set to **RCV**, the receiver can be controlled (used to select the white commands above the number buttons (**A.ATT**, etc.)). Also use this switch to set up surround sound.

16 VOL +/-

Use to set the listening volume.

17 MUTE

Mutes the sound or restores the sound if it has been muted (adjusting the volume also restores the sound).

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

A

To keep the product quality after servicing, confirm recommended check points shown below.

No.	Procedures	Item to be checked
1	Confirm whether the customer complain has been solved. If the customer complain occurs with the particular source, such as Dolby Digital, DTS, AAC, DVD-A and HDMI, input it for the operation check.	The customer complain must not be reappeared. Video, Audio and operations must be normal.
2	Check the analog audio playback. (Make the analog connections with a DVD player.)	Each channel audio and operations must be normal.
3	Check the digital audio playback. (Make the digital connections with a DVD player.)	Each channel audio and operations must be normal.
4	Check surround playback. (Select Surround mode and check the multichannel operations via the DSP circuit.)	Each channel audio and operations must be normal.
5	Check the video outputs. (Connect with a DVD player.)	Video and operations must be normal.
6	Check the sound from headphone output.	Sound must be normal, without noise.
7	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

C

See the table below for the items to be checked regarding video and audio:

Items to be checked regarding video	Item to be checked regarding audio
Block noise	Distortion
Horizontal noise	Noise
Dot noise	Volume too low
Disturbed image (video jumpiness)	Volume too high
Too dark	Volume fluctuating
Too bright	Sound interrupted
Mottled color	

D

● Cleaning the Fan



Before shipment, be sure to clean the fan, using the following cleaning materials:

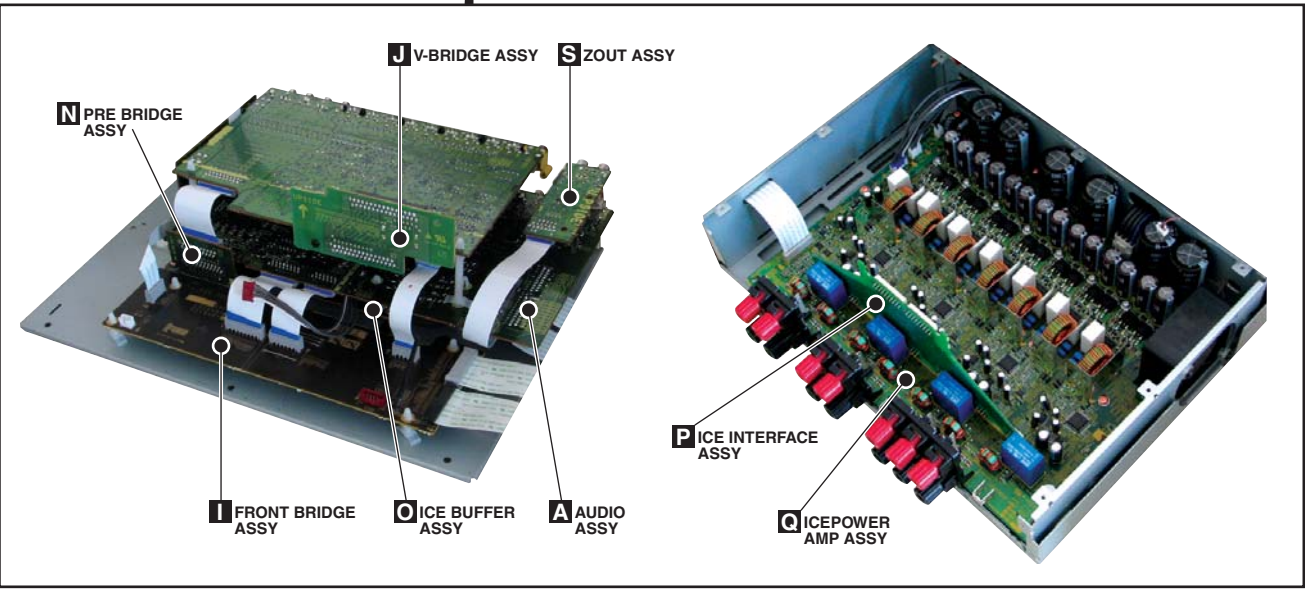
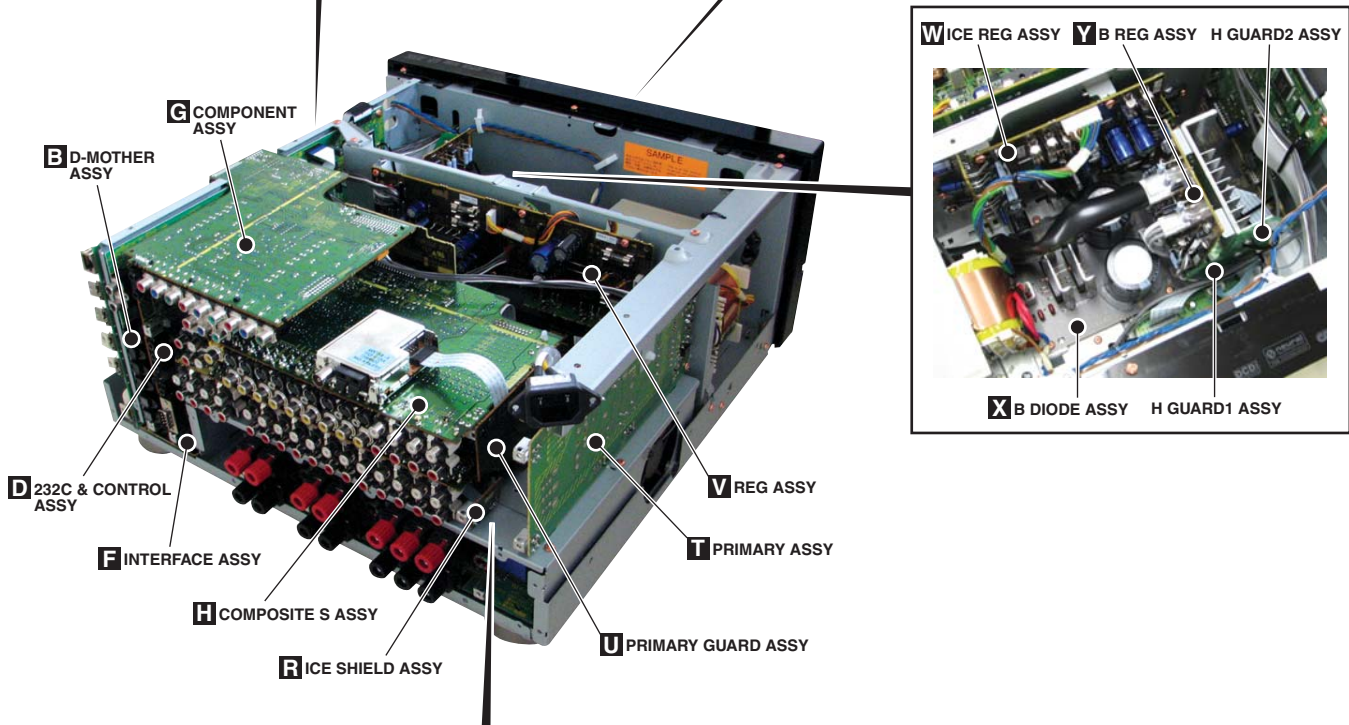
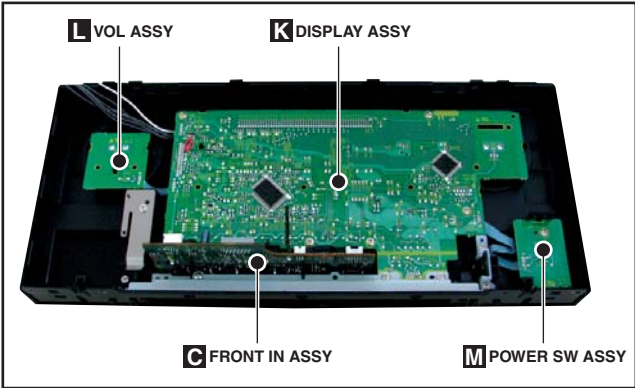
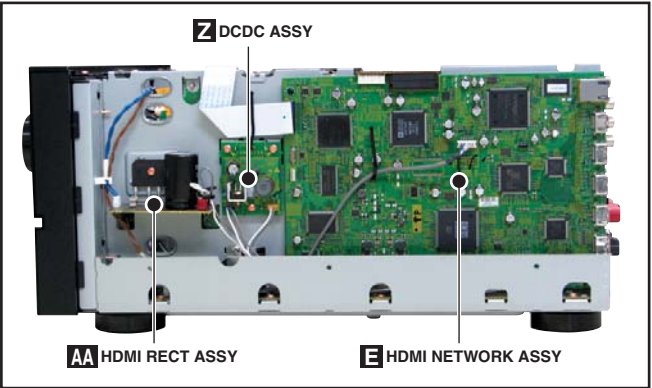
Cleaning paper : GED-008

E

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5 6 7 8

3.2 PCB LOCATIONS



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NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 ● The Δ mark found on some component parts indicates the importance of the safety factor of the part.
 Therefore, when replacing, be sure to use parts of identical designation.

◆ LIST OF ASSEMBLIES

Mark	Symbol and Description	SC-LX81 /HYSXJ5	SC-LX71 /HYSXJ5
	1..ICEPOWER AMP ASSY	AWH7017	AWH7017
NSP	1..COMPOSITE ICE ASSY	AWM8106	AWM8106
	2..COMPOSITE S ASSY	AWX9144	AWX9144
	2..ICE BUFFER ASSY	AWX9145	AWX9145
	2..PRE BRIDGE ASSY	AWX9146	AWX9146
	2..ICE SHIELD ASSY	AWX9173	AWX9173
NSP	1..PRIM DISPLAY ASSY	AWM8120	AWM8129
	2..PRIMARY ASSY	AWX9166	AWX9166
	2..HDMI RECT ASSY	AWX9156	AWX9156
	2..DISPLAY ASSY	AWX9158	AWX9238
	2..VOL ASSY	AWX9159	AWX9159
	2..POWER SW ASSY	AWX9160	AWX9160
	2..V-BRIDGE ASSY	AWX9161	AWX9161
NSP	1..DIGITAL MOTHER ASSY	AWP7058	AWP7064
	2..D-MOTHER ASSY	AWX9196	AWX9202
	2..ICE INTERFACE ASSY	AWX9137	AWX9137
	2..DCDC ASSY	AWX9138	AWX9138
	2..H GUARD2 ASSY	AWX9147	AWX9147
	2..H GUARD1 ASSY	AWX9174	AWX9174
NSP	1..COMPONENT FIN ASSY	AWQ7058	AWQ7061
	2..COMPONENT ASSY	AWX9141	AWX9211
	2..FRONT IN ASSY	AWX9142	AWX9142
	2..ZOUT ASSY	AWX9143	AWX9143
NSP	1..INTERFACE REG ASSY	AWR7067	AWR7067
	2..INTERFACE ASSY	AWX9148	AWX9148
	2..ICE REG ASSY	AWX9149	AWX9149
	2..B REG ASSY	AWX9150	AWX9150
	2..B DIODE ASSY	AWX9171	AWX9171
NSP	1..FBRIDGE REG ASSY	AWR7068	AWR7068
	2..REG ASSY	AWX9152	AWX9152
	2..FRONT BRIDGE ASSY	AWX9155	AWX9155
NSP	1..AUDIO ASSY	AWR7071	AWR7071
	2..AUDIO ASSY	AWX9206	AWX9206
	2..232C & CONTROL ASSY	AWX9209	AWX9209
	2..PRIMARY GUARD ASSY	AWX9172	AWX9172
	1..HDMI NETWORK ASSY	AWX9234	AWX9235
	1..FM/AM TUNER UNIT	AXX7248	AXX7248

F

3.3 JIGS LIST

[1] Jigs List

Name	Jig No.	Remarks
27P FFC	GGD1588	Diagnosis
19P FFC	GGD1589	Diagnosis
21P FFC	GGD1590	Diagnosis
16P FFC	GGD1591	Diagnosis
30p+13p board to board extension cable	GGD1592	Diagnosis
17p+19p board to board extension cable	GGD1593	Diagnosis
5p extension cable	GGD1594	Diagnosis

[2] Lubricants and Glues List

Name	Lubricants and Glues No.	Remarks
Lubricating Oil	GYA1001	Refer to “9.5 FRONT PANEL SECTION”
Silicone Grease	GEM1057	Refer to “9.3 CHASSIS SECTION”

△

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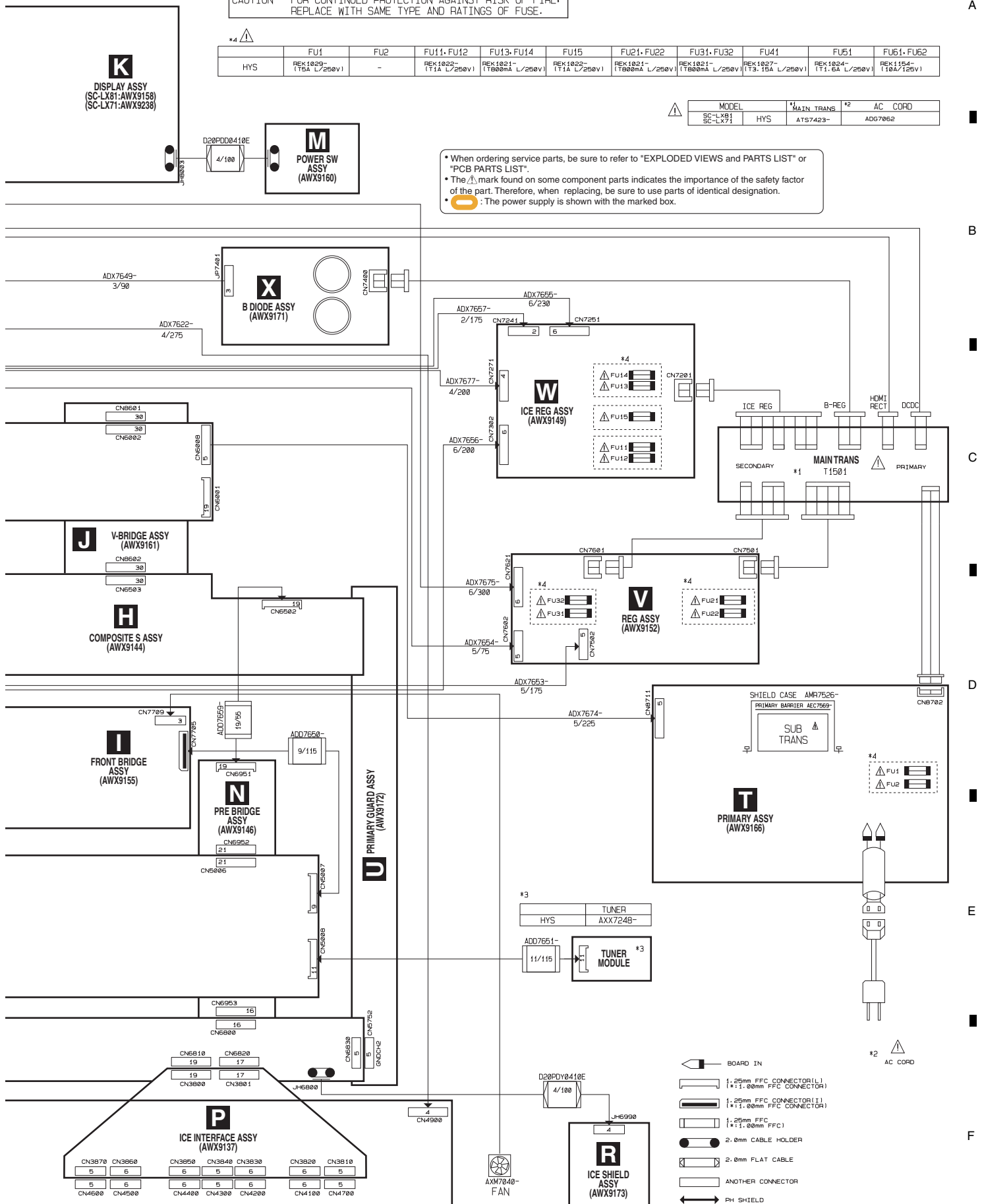
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

*4

	FU1	FU2	FU11, FU12	FU13, FU14	FU15	FU21, FU22	FU31, FU32	FU41	FU51	FU61, FU62
HYS	REK1029- (1.5A L/250V)	-	REK1022- (1.1A L/250V)	REK1021- (1.000mA L/250V)	REK1022- (1.1A L/250V)	REK1021- (1.000mA L/250V)	REK1021- (1.000mA L/250V)	REK1027- (1.3, 1.5A L/250V)	REK1024- (1.1, 1.6A L/250V)	REK1154- (1.0A/125V)

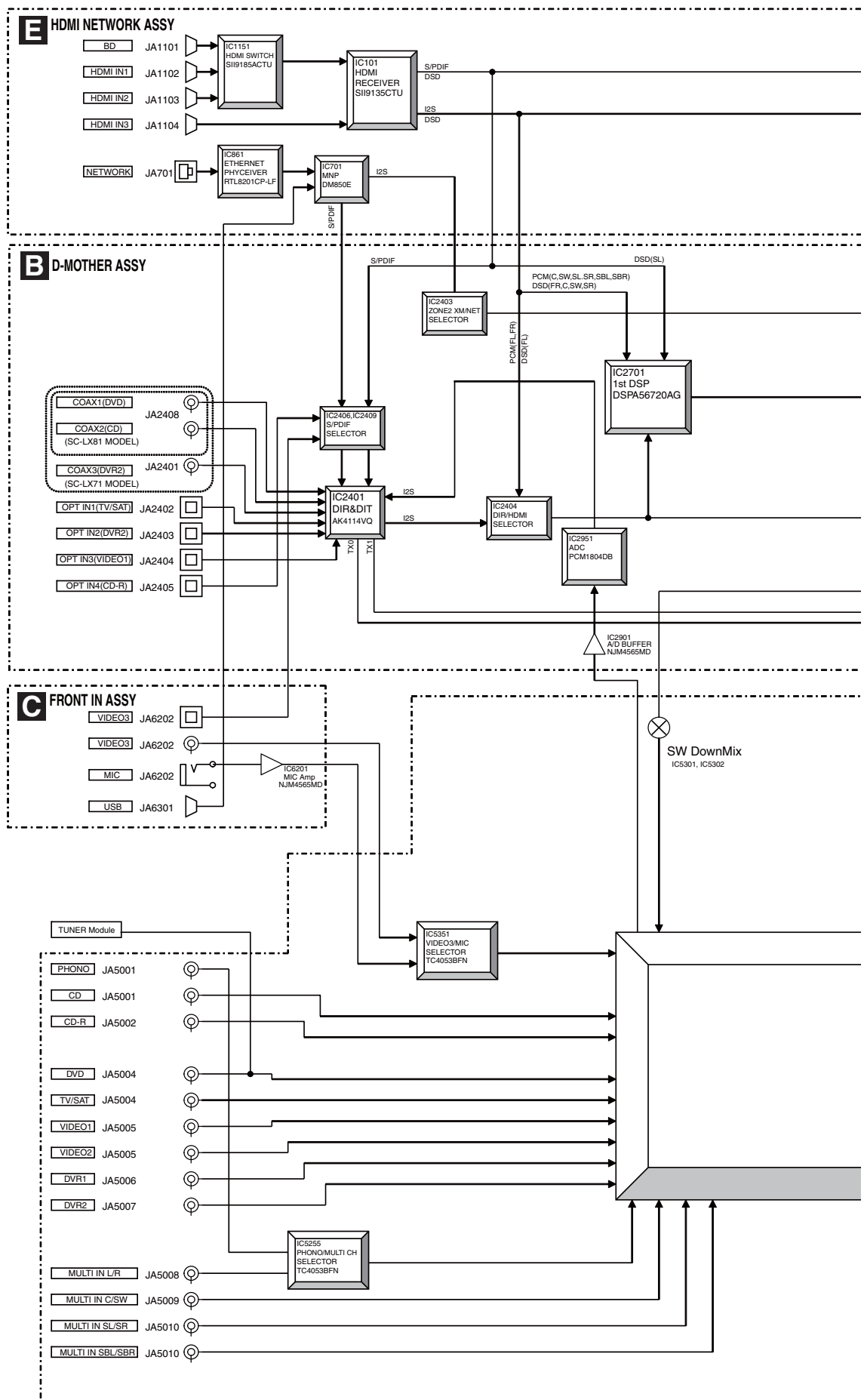
MODEL		*1 MAIN TRANS	*2 AC CORD
SC-LX81 SC-LX71	HYS	AT57423-	ADG7062

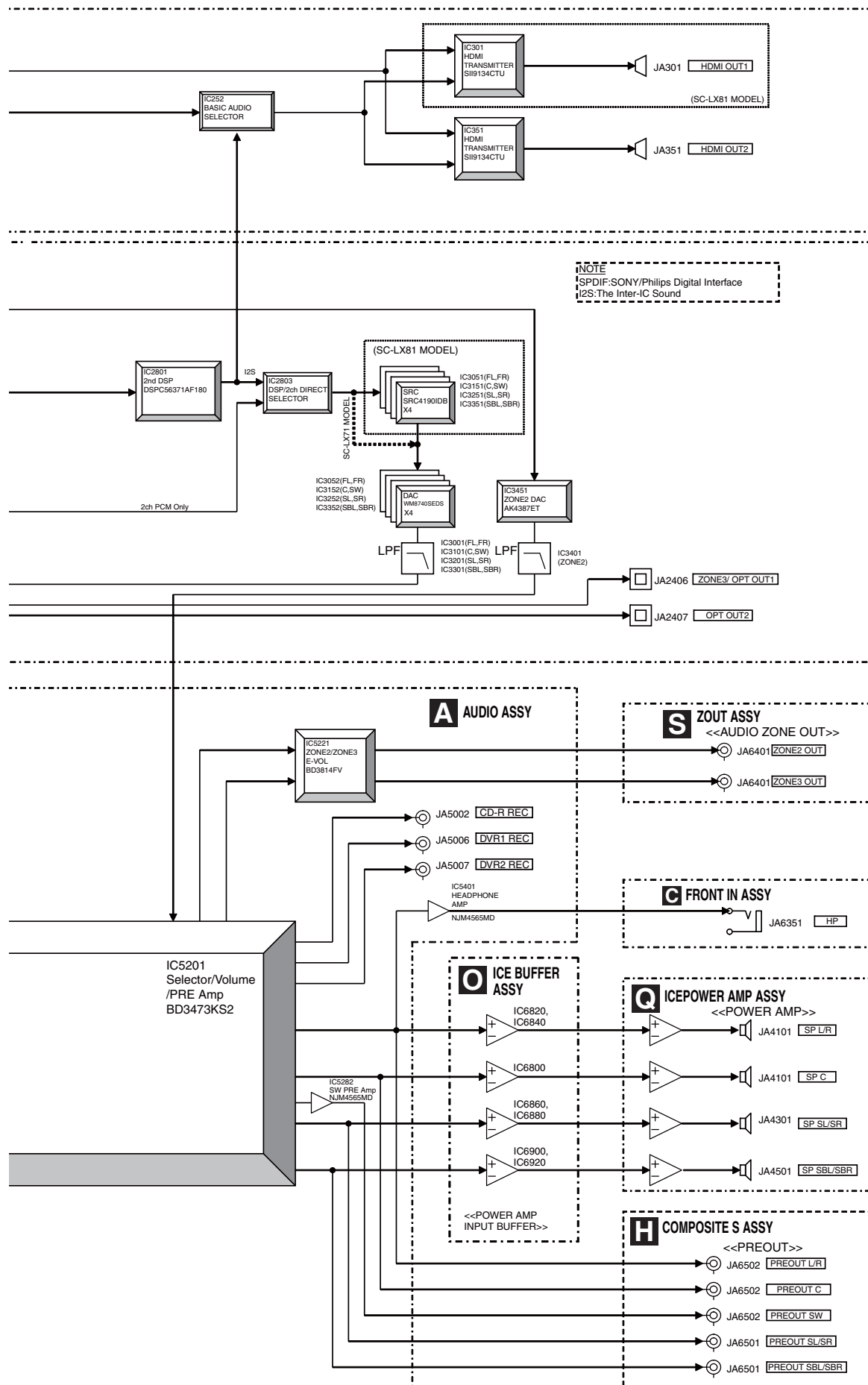
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply is shown with the marked box.



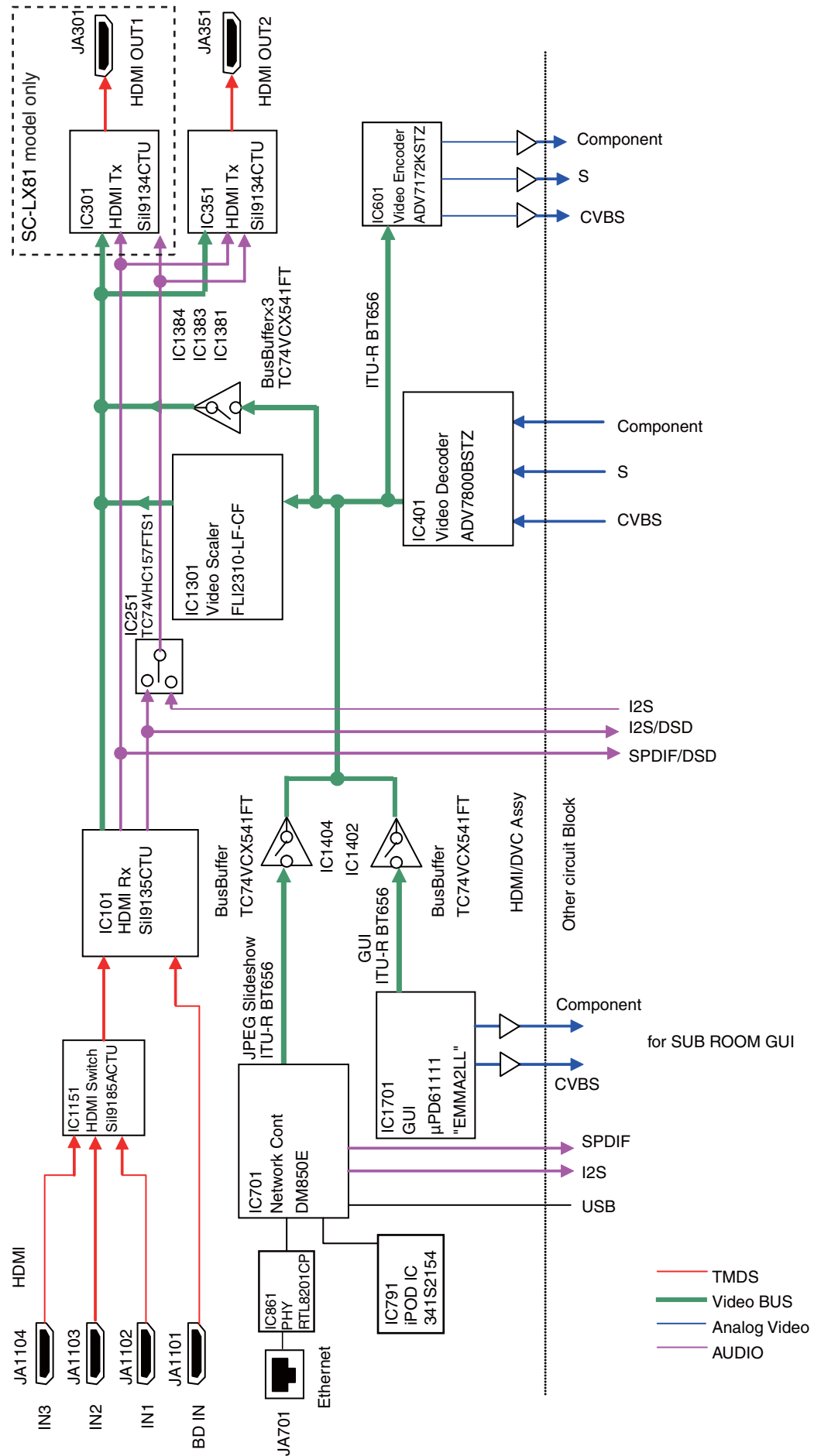
SC-LX81

4.2 AUDIO BLOCK DIAGRAM





4.4 HDMI NETWORK BLOCK DIAGRAM



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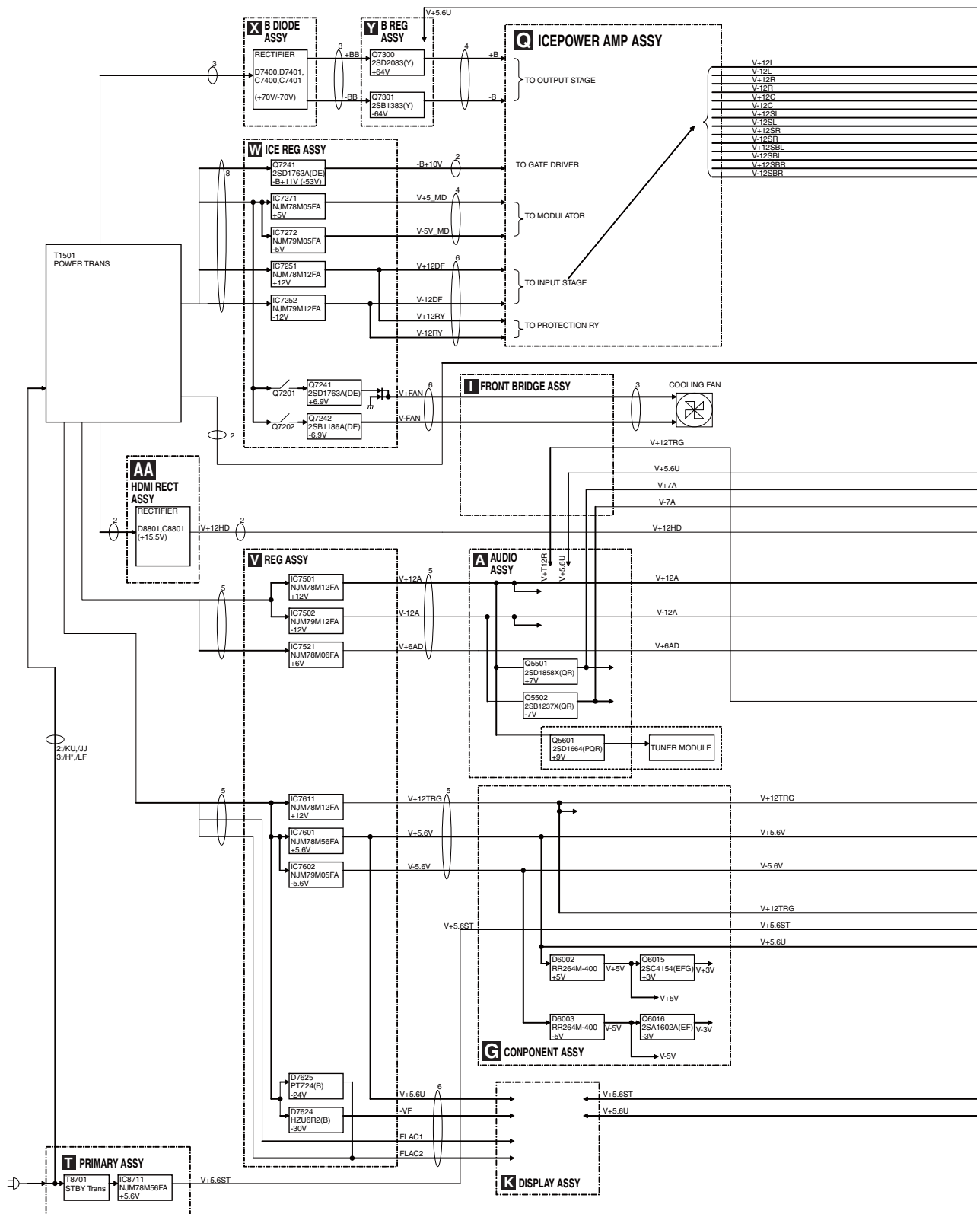
■

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■

SC-LX81

4.6 POWER BLOCK DIAGRAM

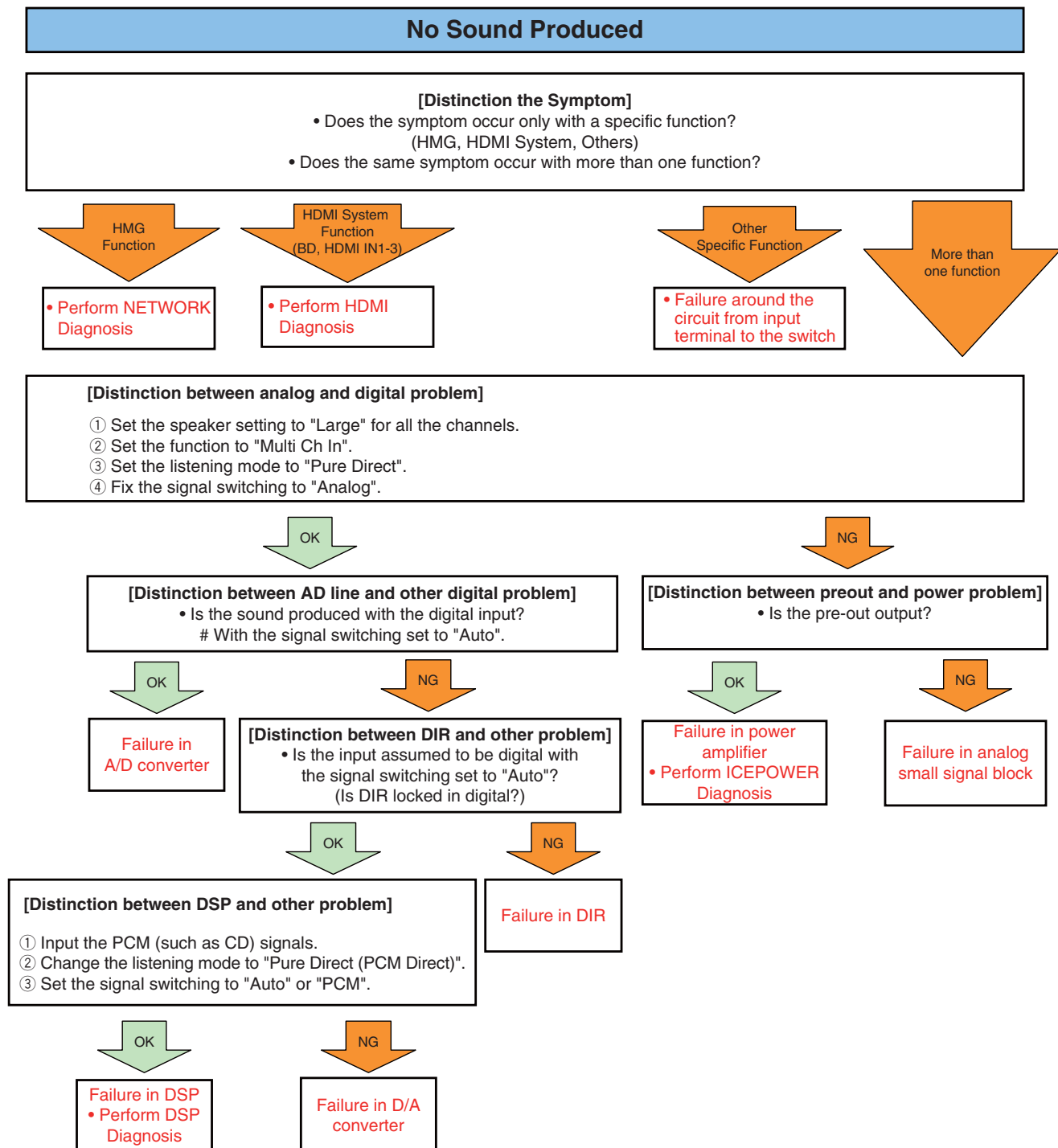




5. DIAGNOSIS

5.1 DIAGNOSIS FLOWCHART

[1] Audio Section Troubleshooting



[2] DSP Troubleshooting

1) Simplified diagnosis

DSP block malfunction is detected.

(The part can be roughly expected just by operation of the main unit.)

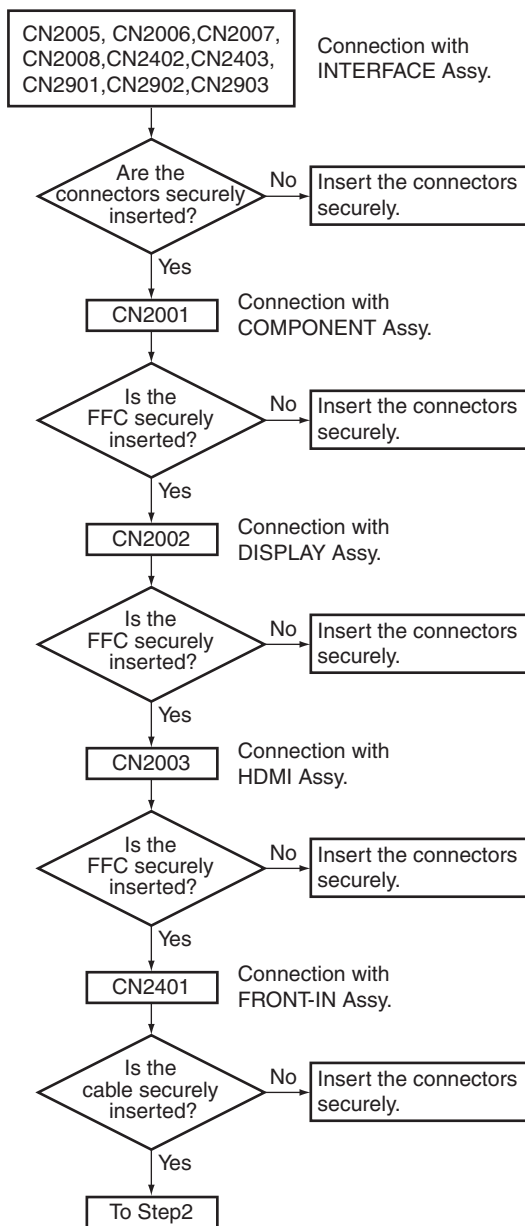
• Has DSP block caused the malfunction?

Inputting a 2ch PCM (such as CD) digital signal, check if the sound plays by switching AUTO SURR / STREAM DIRECT. When the sound doesn't play in AUTO SURROUND or DIRECT MODE though it does in PURE DIRECT (PCM DIRECT) MODE, DSP block might be defective.

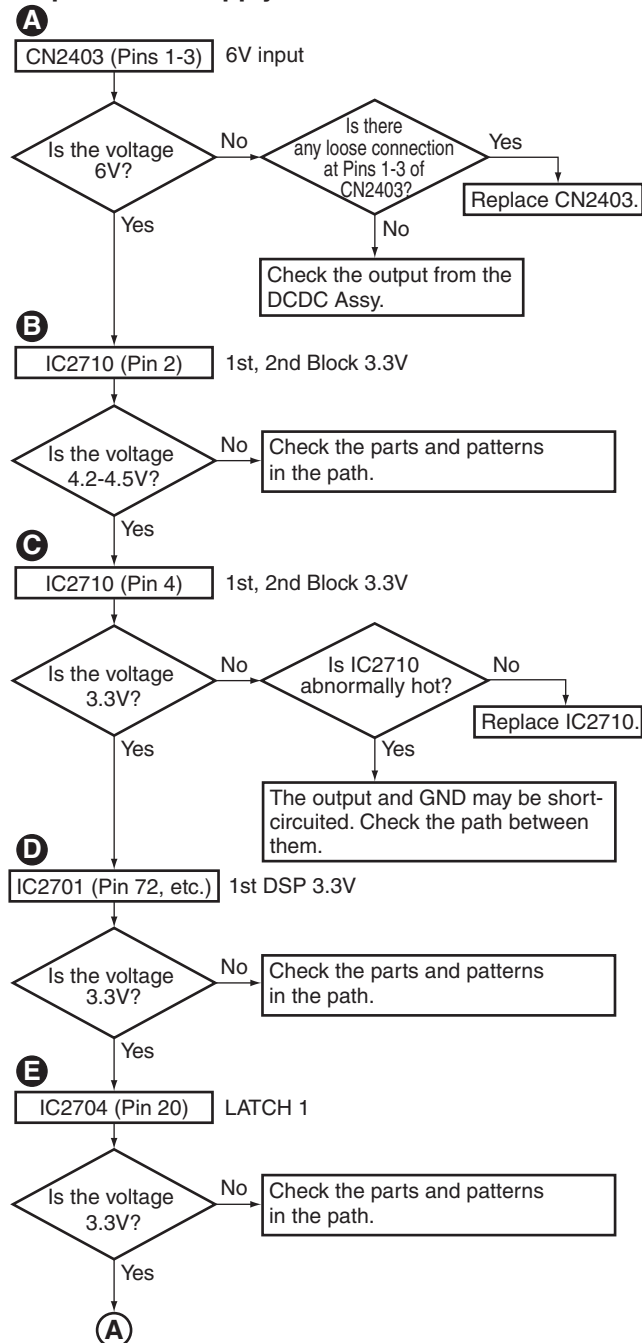
2) Troubleshooting

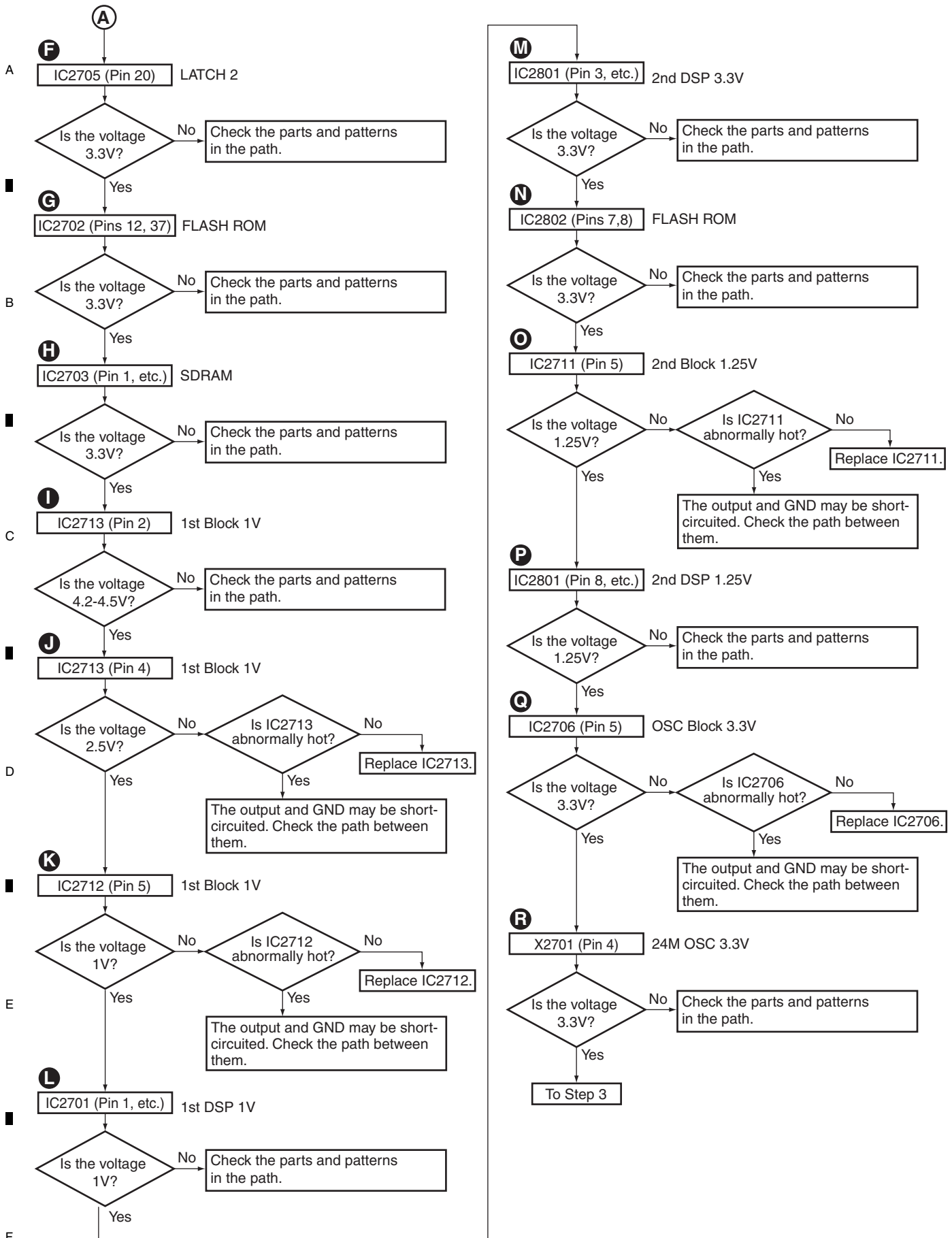
- It is assumed that there is no loose connection or damage in the LCRs.
- Refer to "DIGITAL MOTHER Assy Check Points (DSP Section)" as the parts marked **A** to **AV** in the troubleshooting are located.

Step 1: Connections

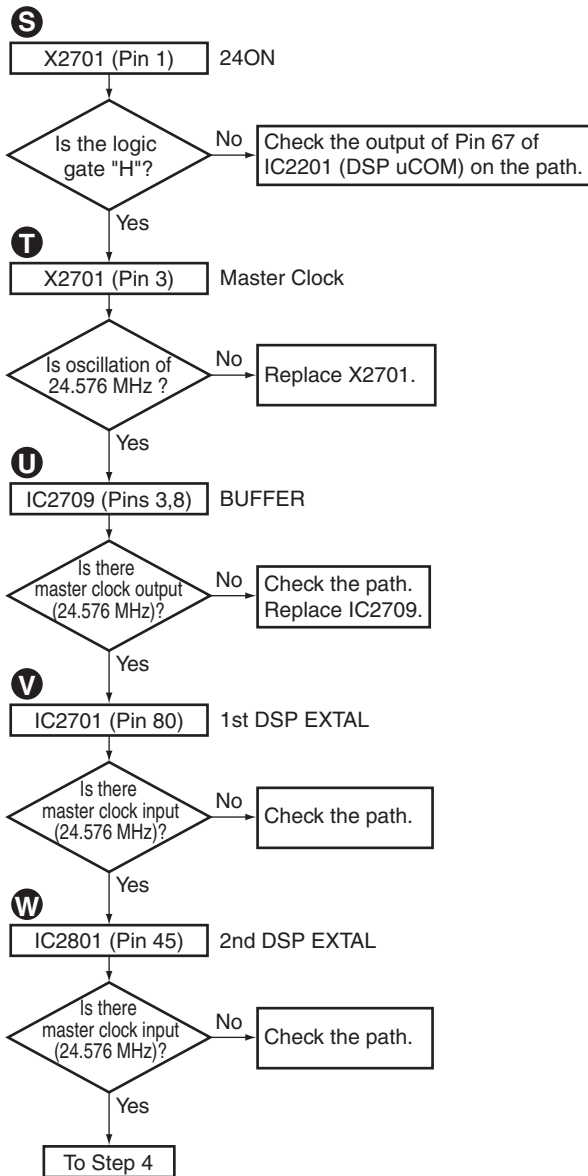


Step 2: Power supply

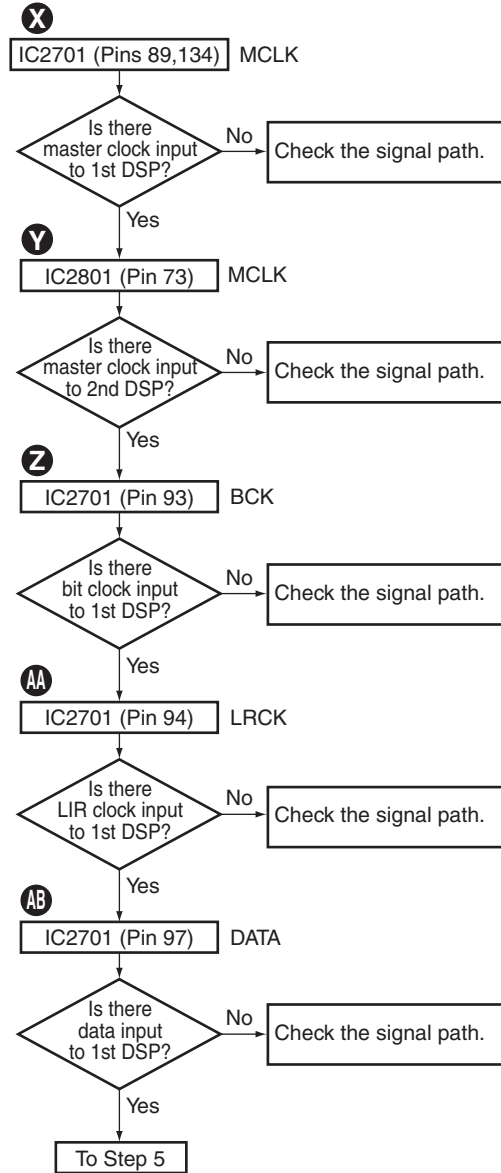




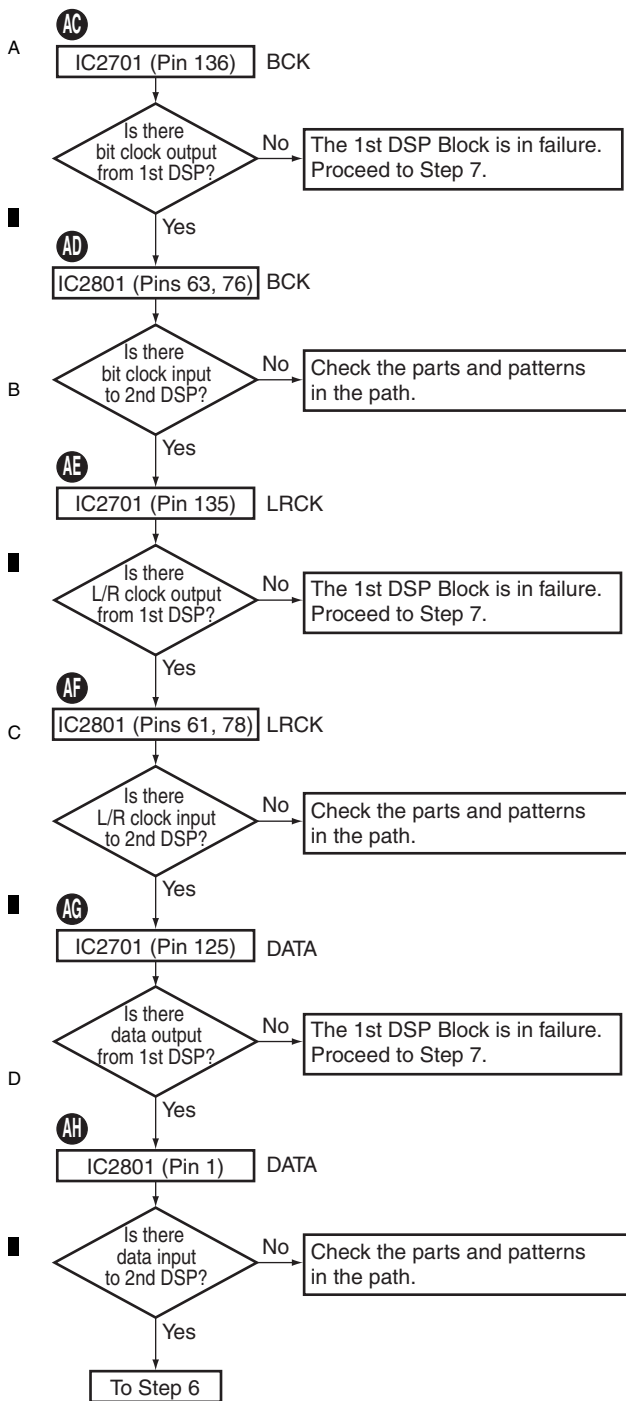
Step 3: Master Clock



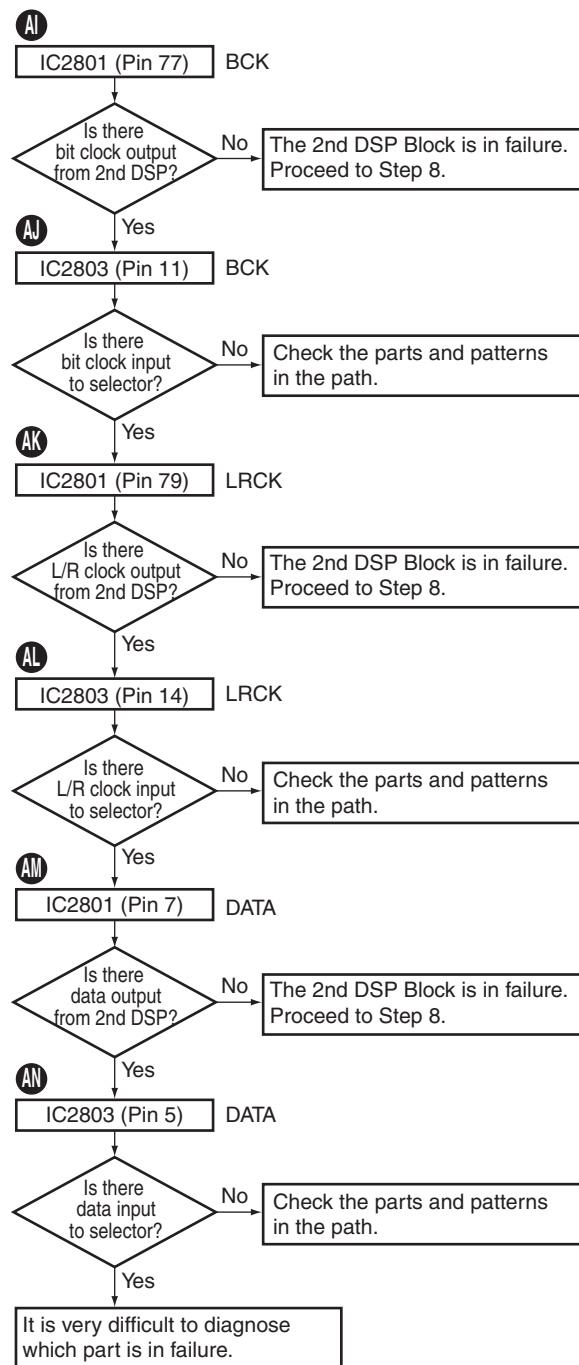
Step 4: Audio Signal



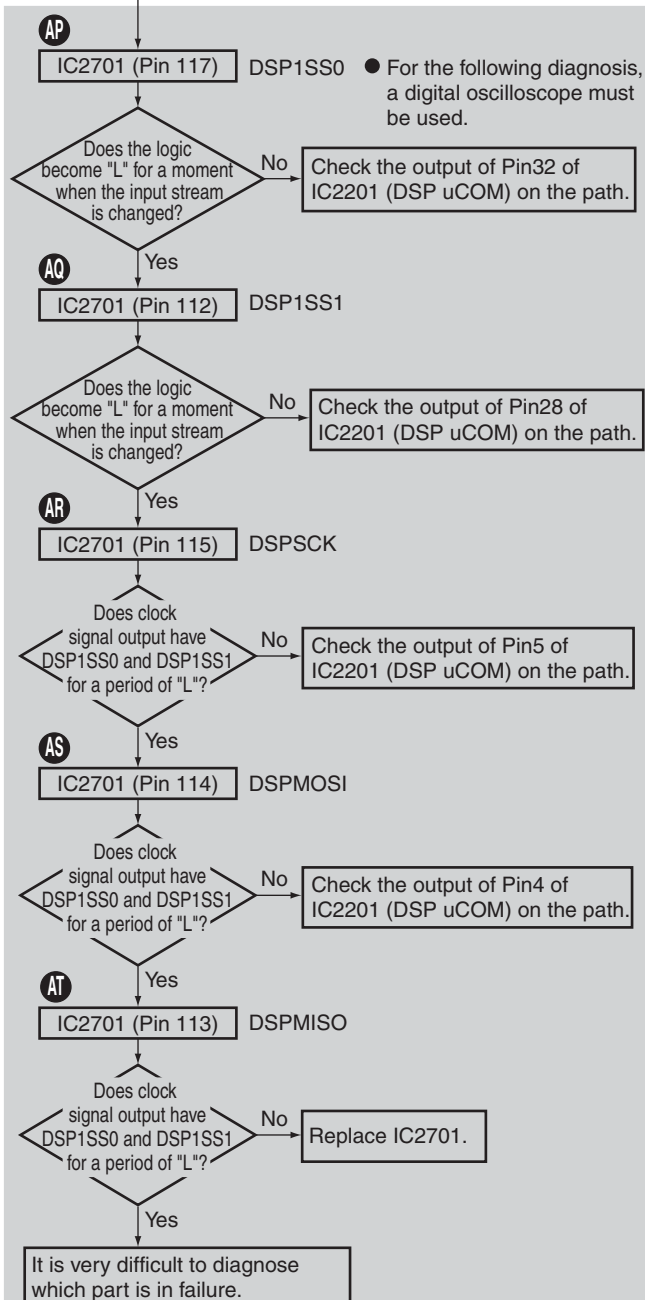
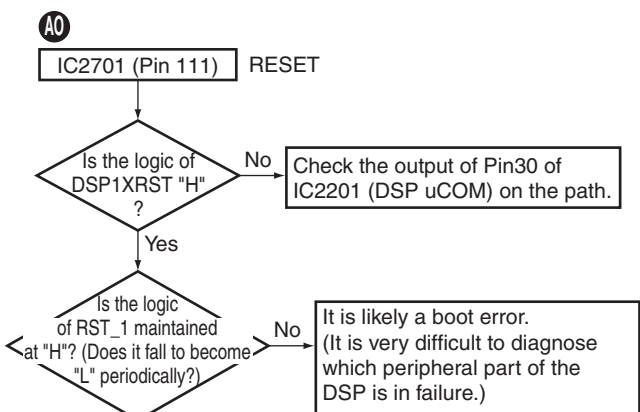
Step 5: Audio Signal



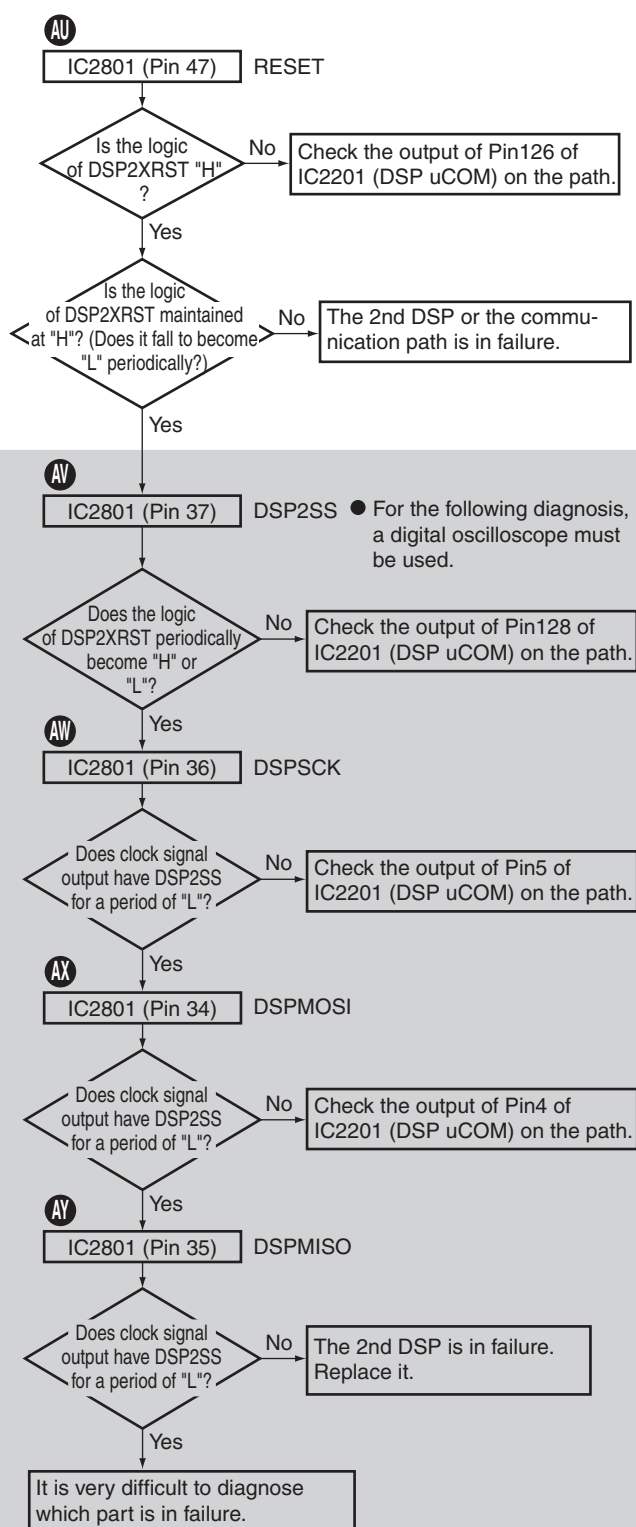
Step 6: Audio Signal



Step 7: 1st DSP



Step 8: 2nd DSP



3) D-MOTHER Assy check points (DSP section)

A

B D-MOTHER ASSY SIDE A

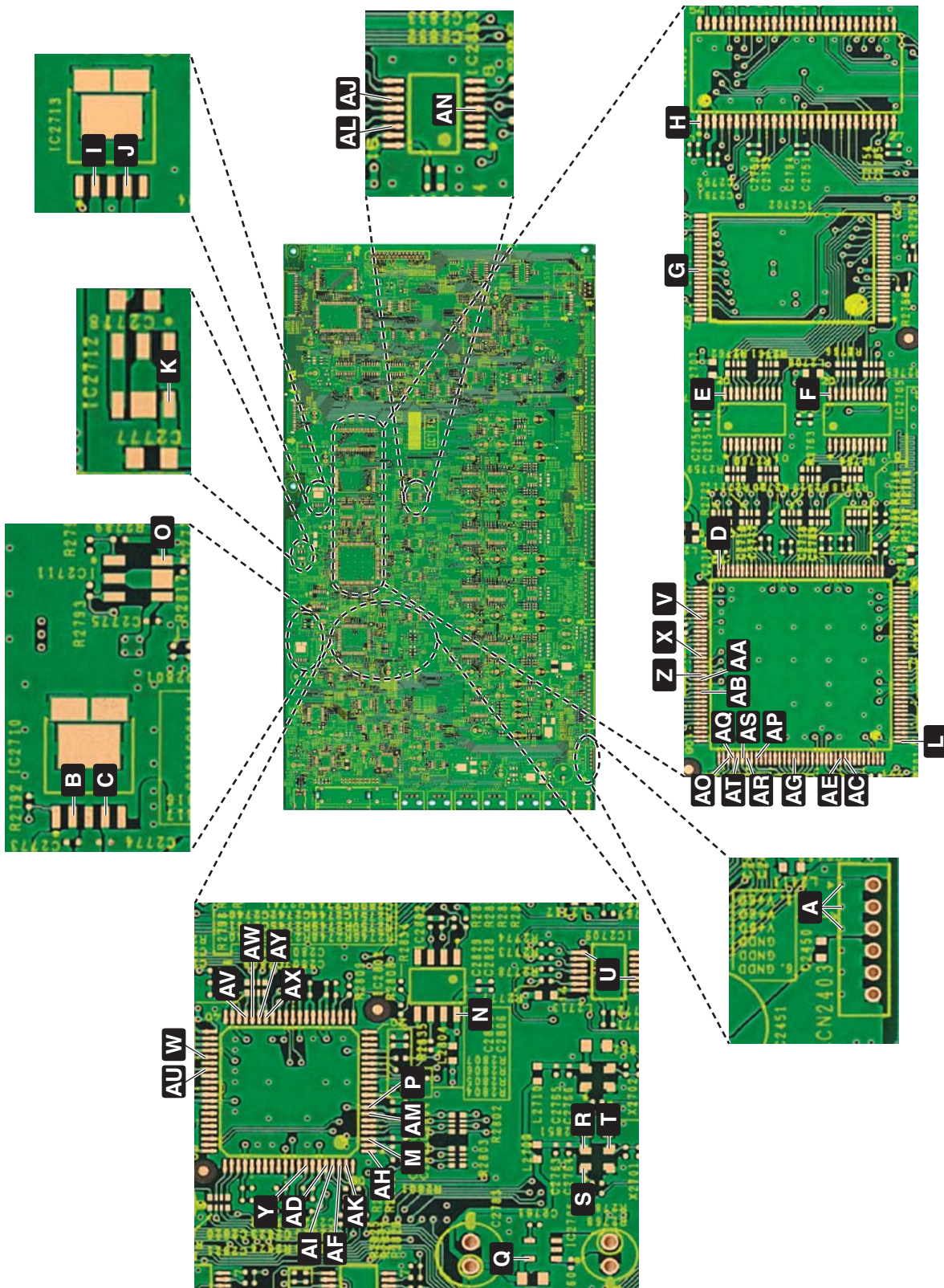
B

C

D

E

F

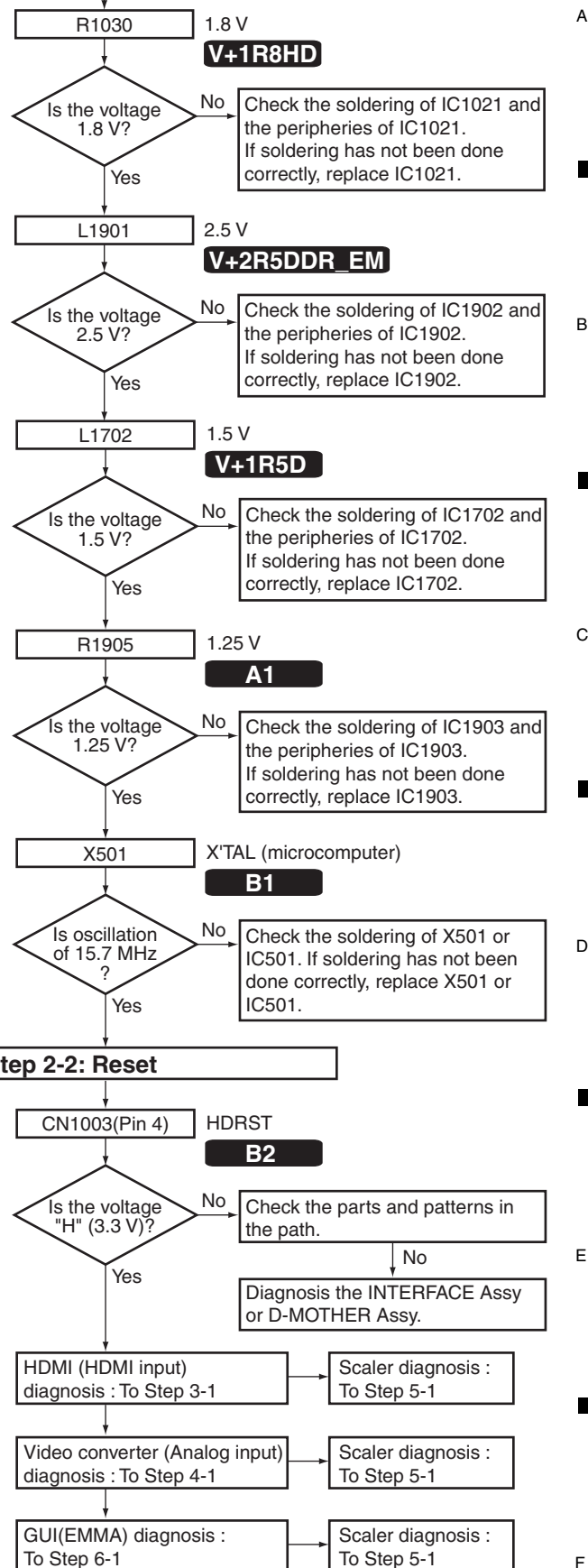
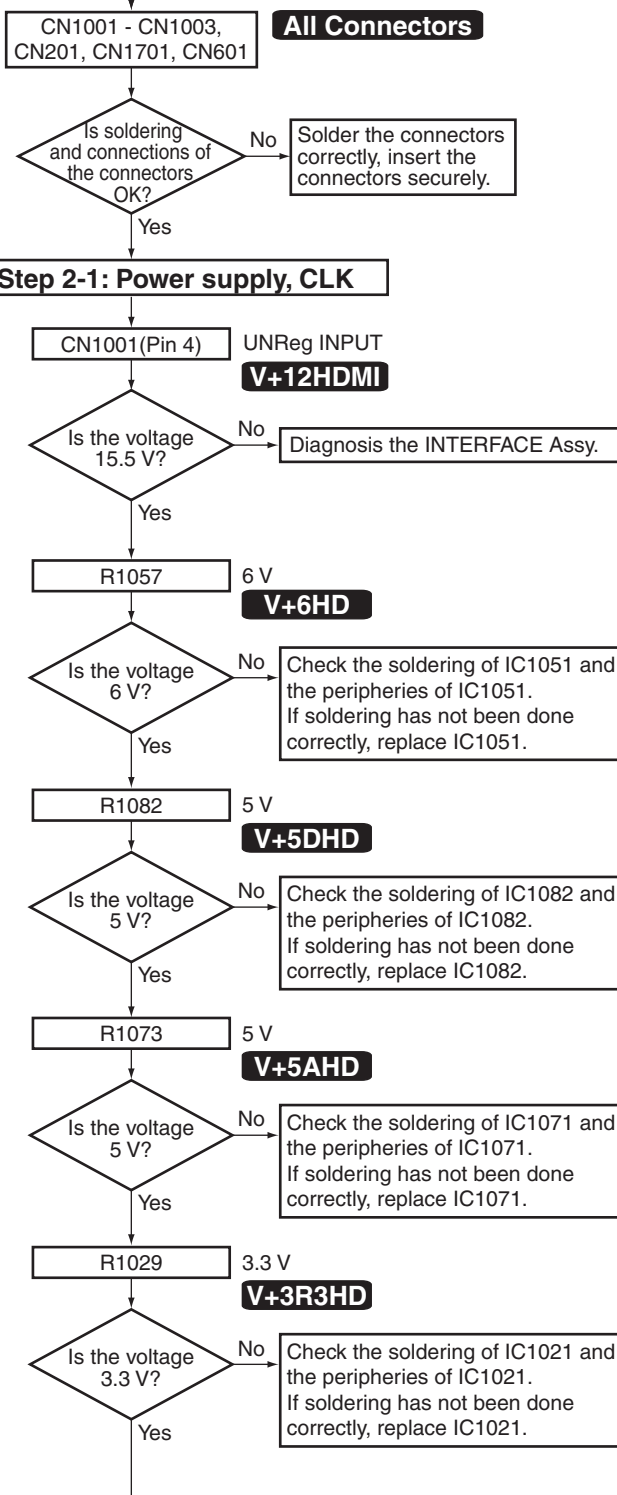


[3] HDMI Troubleshooting

- The parts marked like **A2** in the following chart are located in "HDMI/NETWORK Assy Check Points".

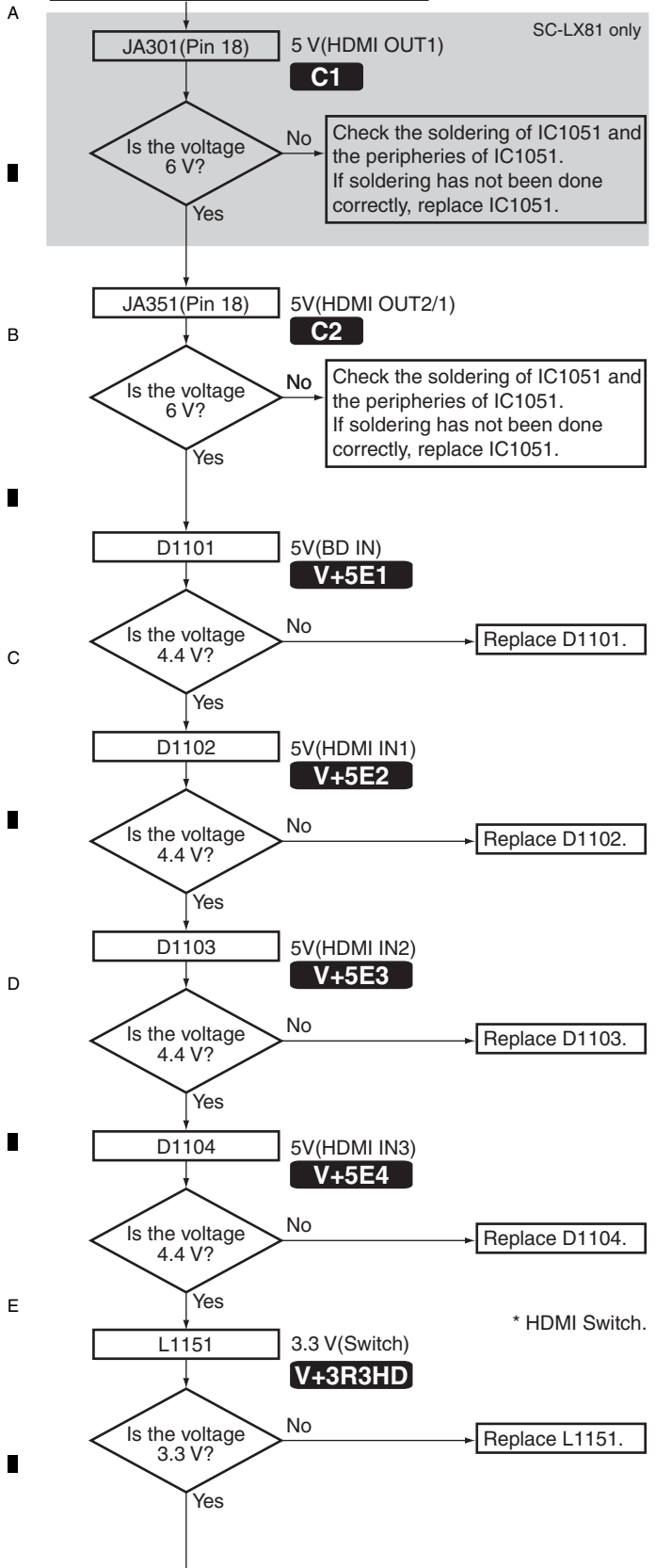
Common section

Step 1: Connections

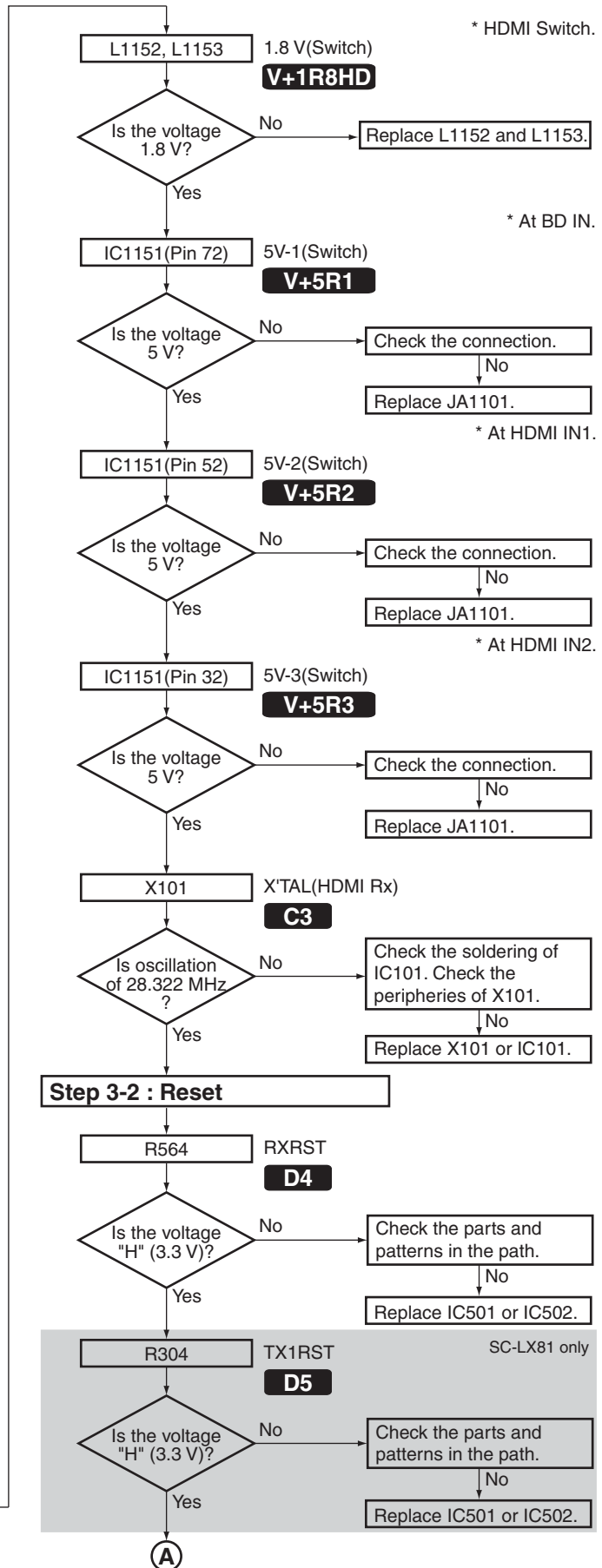


HDMI section

Step 3-1: Power supply, CLK



* HDMI Switch.

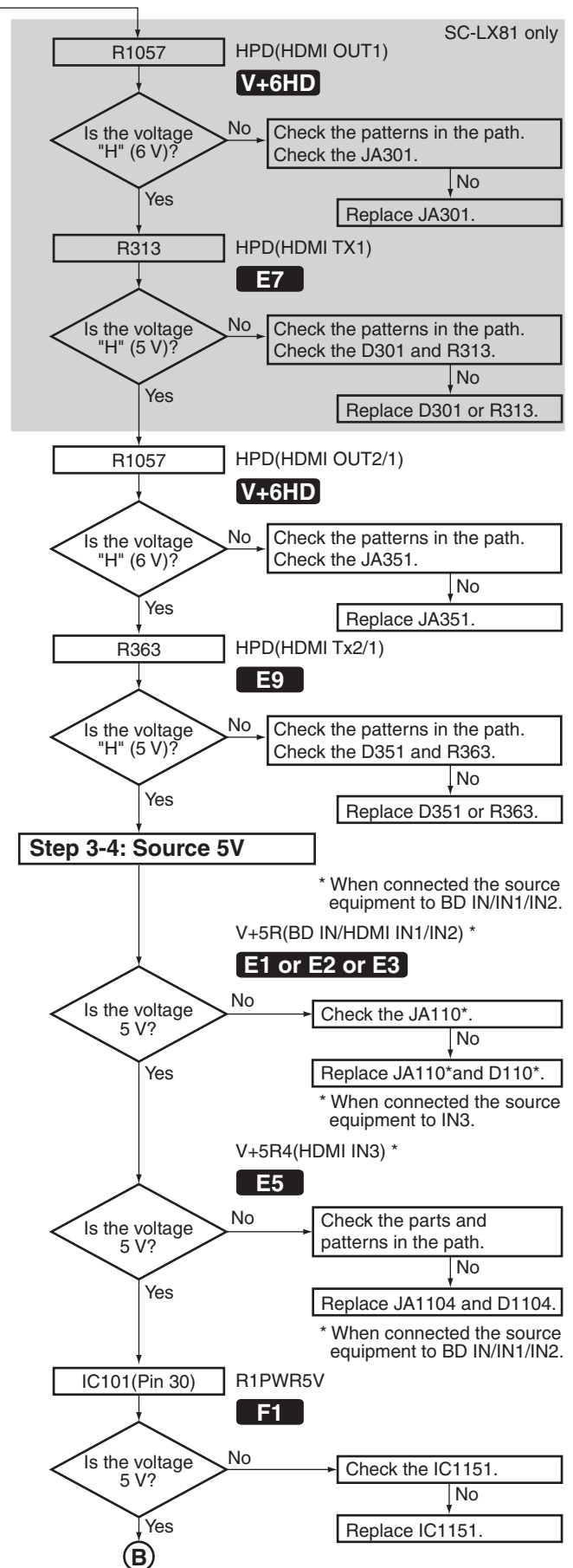
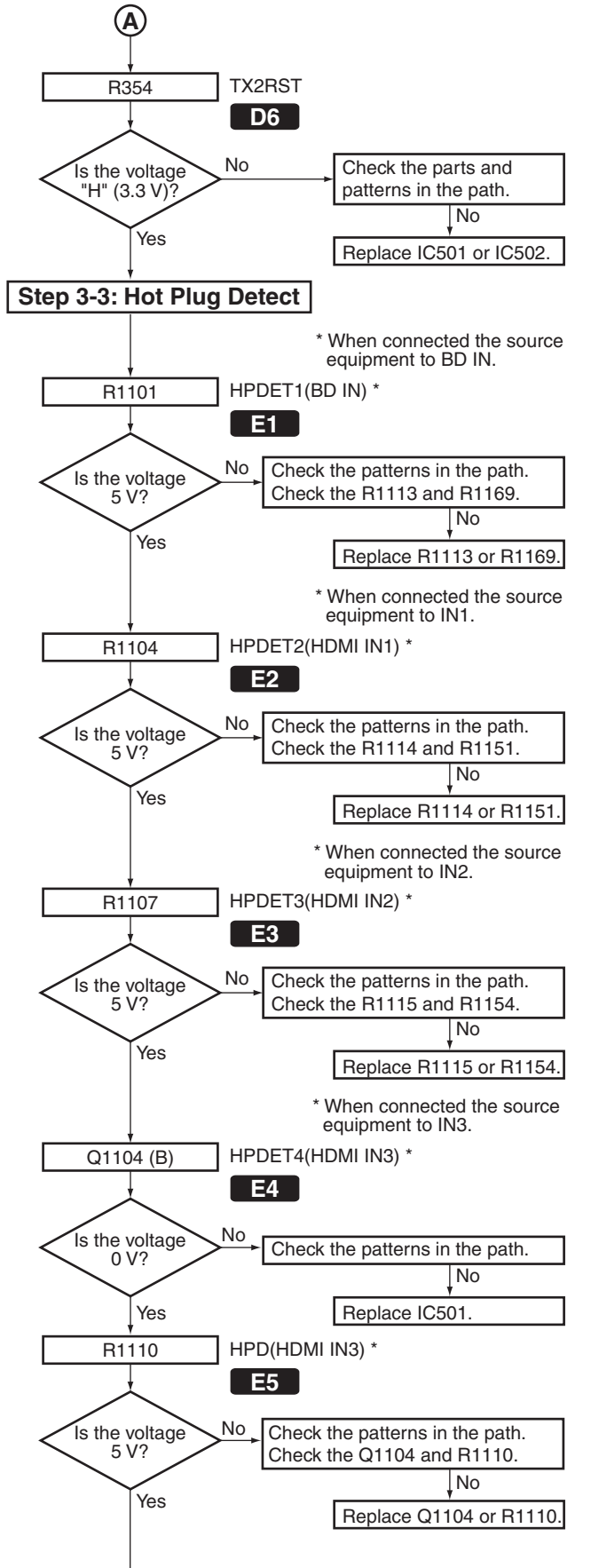


* HDMI Switch.

* At BD IN.

* At HDMI IN1.

* At HDMI IN2.



A

B

B

C

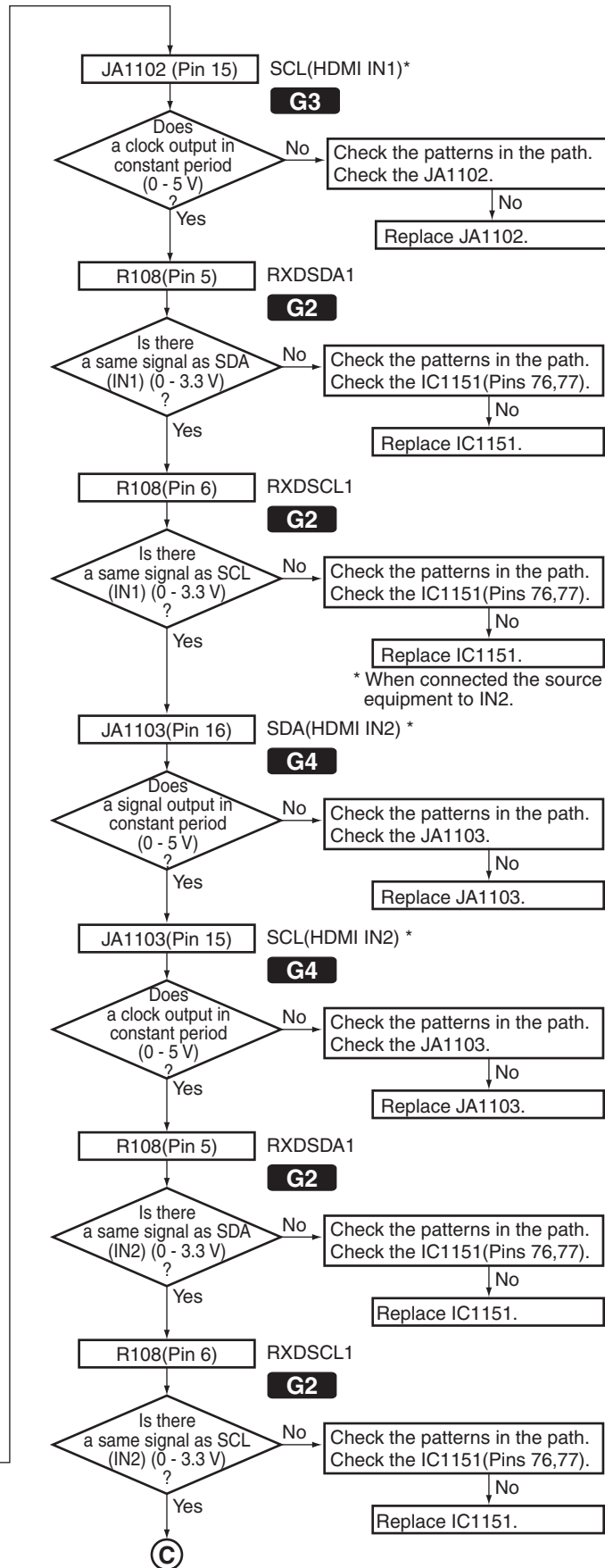
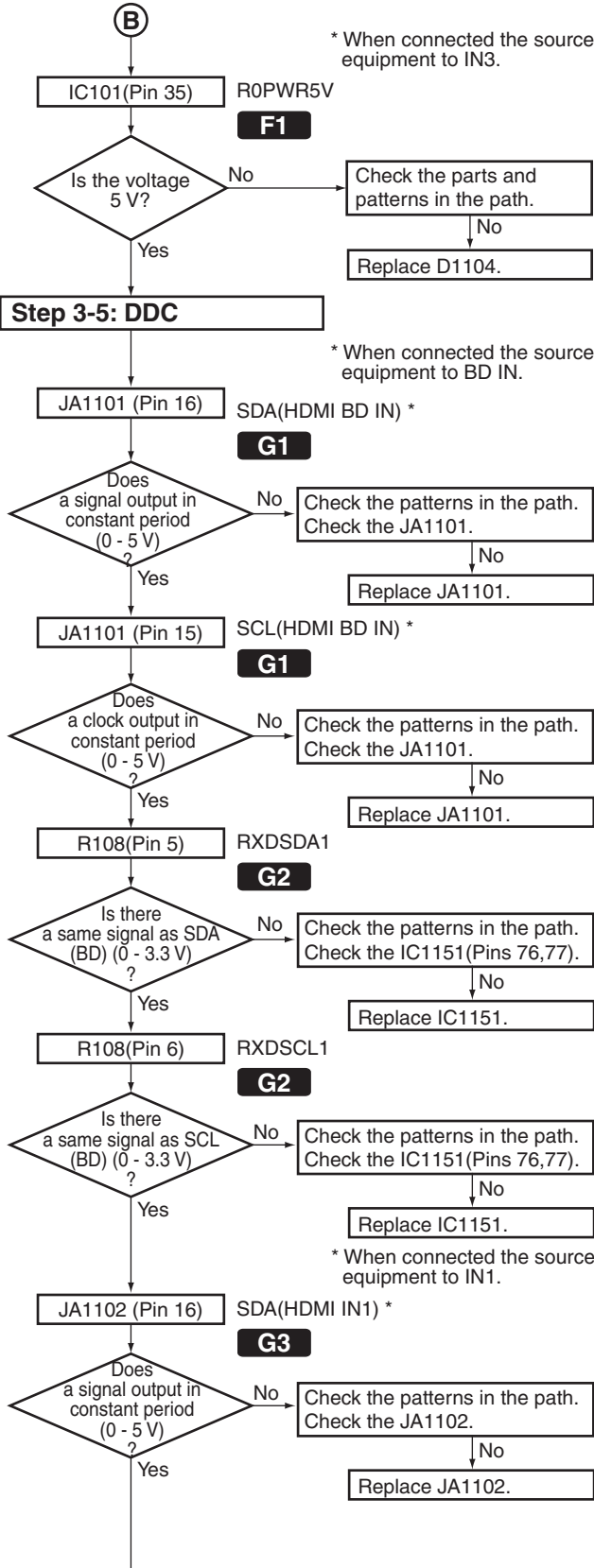
D

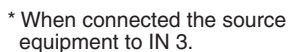
E

F

* When connected the source equipment to IN3.

* When connected the source equipment to BD IN.





D

Step 3-6: TMD5(INPUT)

* When connected the source equipment to BD IN.

IC1151(Pins 58,59,
61,62,64,65,67,68)

TMD5(BD IN) *

H1Are there signals
(approx. 0.5 Vp-p) in all
the lines?

No

Check the soldering of JA1101.

No

Replace JA1101.

Yes

IC1151(Pins 38,39,
41,42,44,45,47,48)

TMD5(HDMI IN1/IN1) *

H1Are there signals
(approx. 0.5 Vp-p) in all
the lines?

No

Check the soldering of JA1102.

No

Replace JA1102.

Yes

IC1151(Pins 18,19,
21,22,24,25,27,28)

TMD5(HDMI IN2/IN2) *

H1Are there signals
(approx. 0.5 Vp-p) in all
the lines?

No

Check the soldering of JA1103.

No

Replace JA1103.

Yes

IC101(Pins 39,40,
43,44,47,48,51,52)

TMD5(HDMI IN3/IN3) *

F1Are there signals
(approx. 0.5 Vp-p) in all
the lines?

No

Check the soldering of JA1104.

No

Replace JA1104.

Yes

IC101 (Pins 57,58,
61,62,65,66,69,70)

TMD5(Rx1)

F1Are there signals
(approx. 0.5 Vp-p) in all
the lines?

No

Check the soldering of IC110*
and JA110*.

No

Replace IC110*and JA110*.

Yes

Step 3-7: TMD5(OUTPUT)

SC-LX81 only

JA301(Pins 1,3,4,6,
7,9,10,12)

TMD5(HDMI OUT1)

G10Are there signals
(approx. 0.5 Vp-p) in all
the lines?

No

Check the parts and patterns in
the path (IC301 - JA301).

No

Replace IC301.

Yes

JA351(Pins 1,3,4,6,
7,9,10,12)

TMD5(HDMI OUT2)

G13Are there signals
(approx. 0.5 Vp-p) in all
the lines?

No

Check the parts and patterns in
the path (IC351 - JA351).

No

Replace IC351.

Yes

**Step 3-8: AUDIO CLK,DATA
(HDMI: AMP MODE)**

IC203(Pin 2) RXSPDIF

(DVD Dolby Digital)

I1Is there a
DATA?

No

Check the parts and patterns in
the path (IC101 - IC203).

No

Replace IC101.

Yes

R209(Right Side) SPDIF

I2Is there a
DATA?

No

Check the parts and patterns in
the path (IC203 - IC205).
Check the soldering of IC203,
L204 and R209.

No

Replace IC203.

Yes

CN201(Pin 2) HSPDIF

I3Is there a
DATA?

No

Check the parts (B side) and
patterns in the path (IC205 -
IC201). Check the soldering of
IC205,L204 and R213.

No

Replace IC205.

Yes

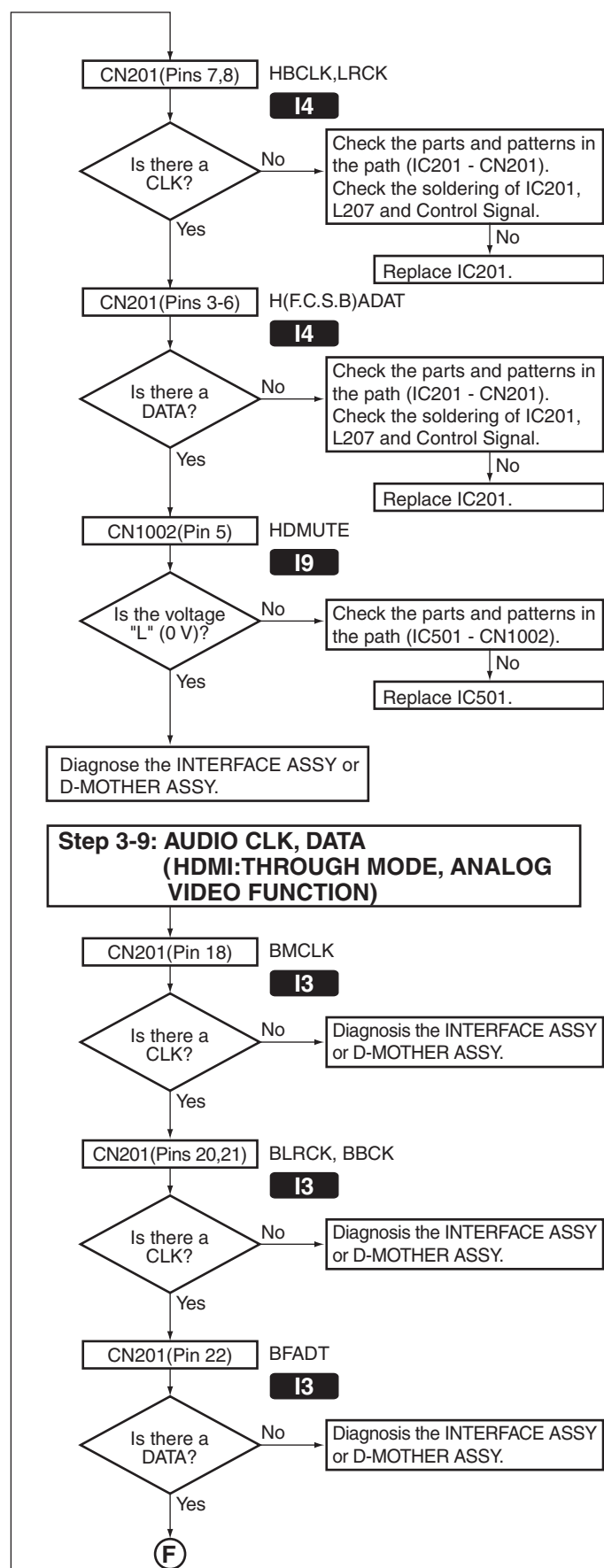
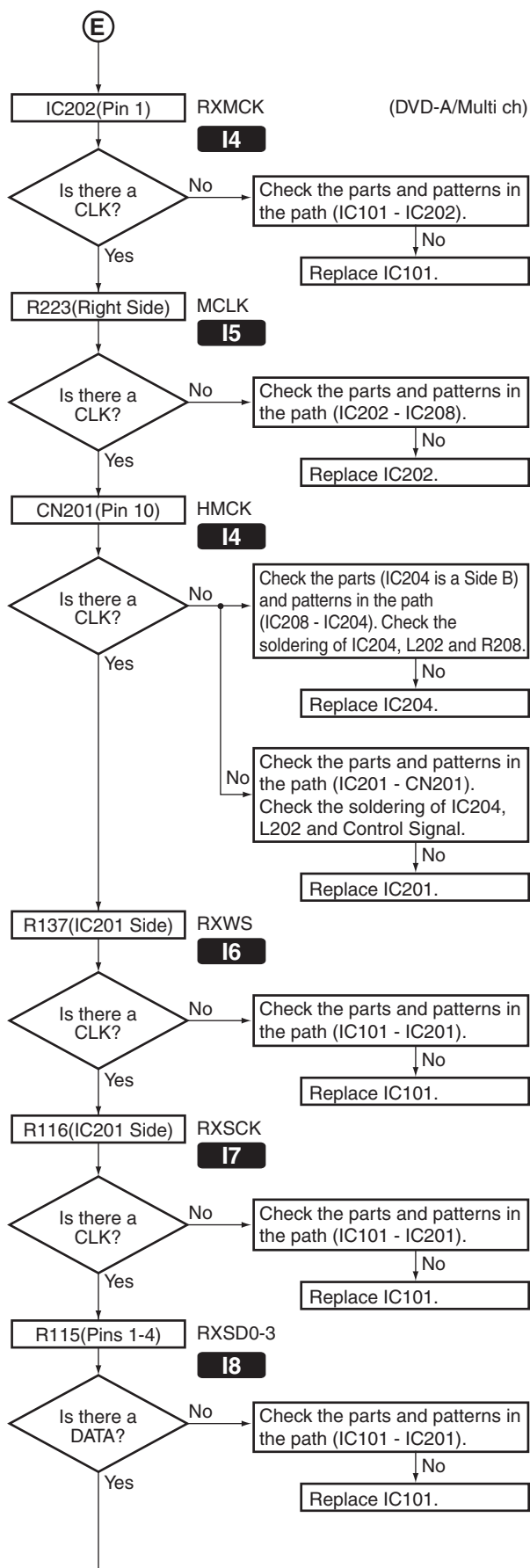
No

Check the parts and patterns in
the path (IC201 - CN201).
Check the soldering of IC201,
L207 and R206.

No

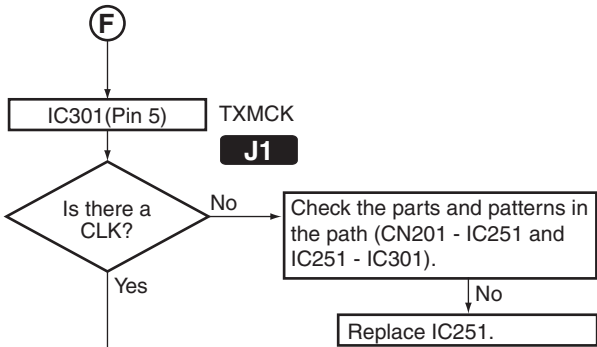
Replace IC201.

E

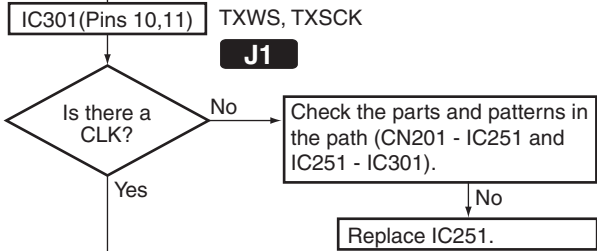


F

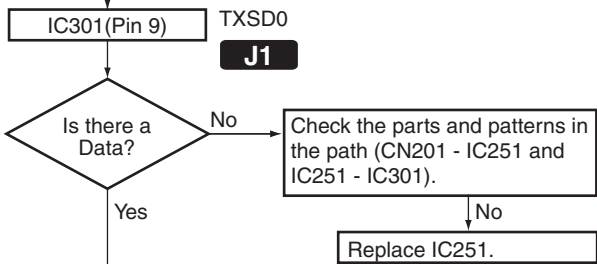
A



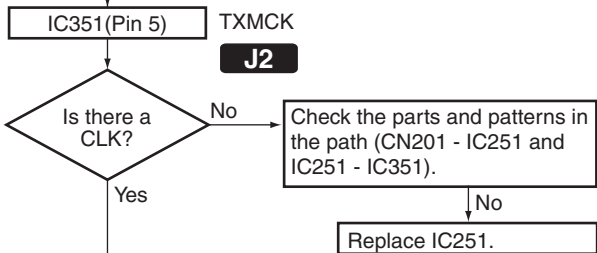
B



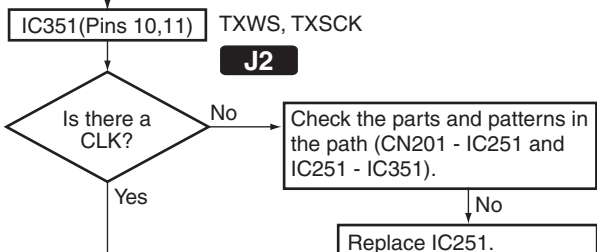
C



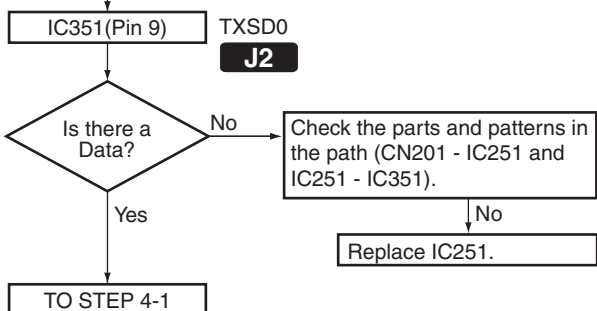
D



E

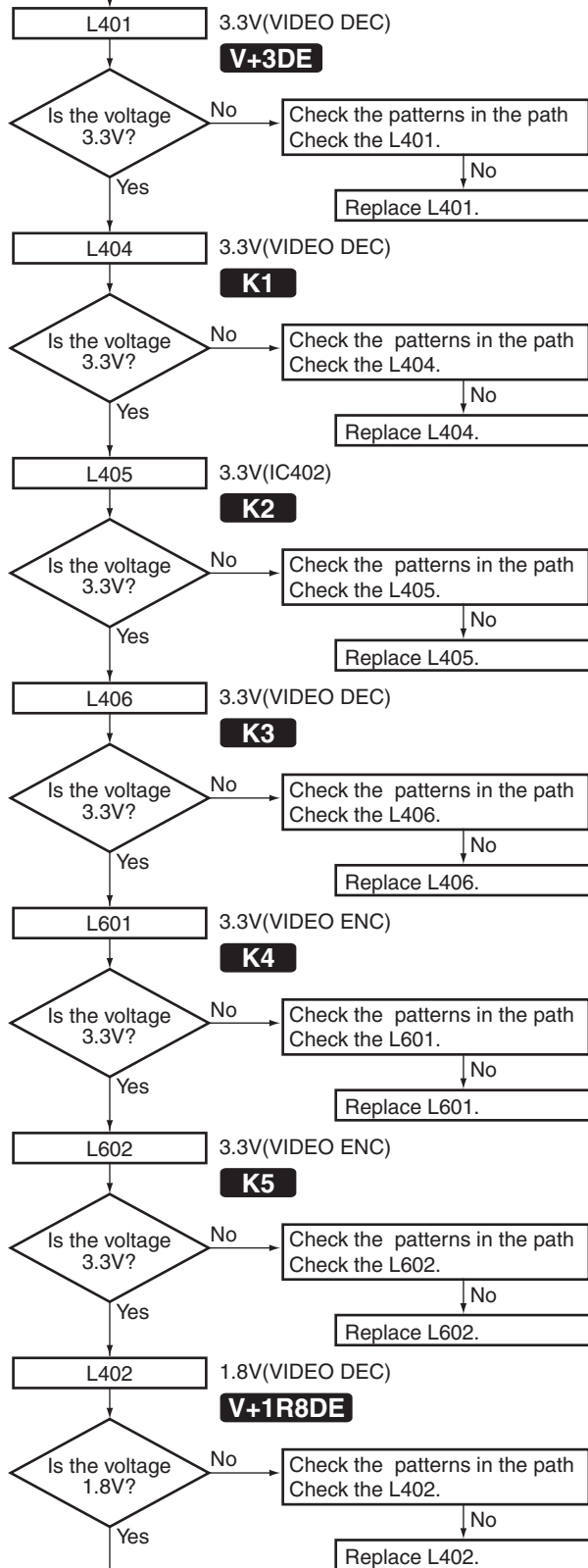


F

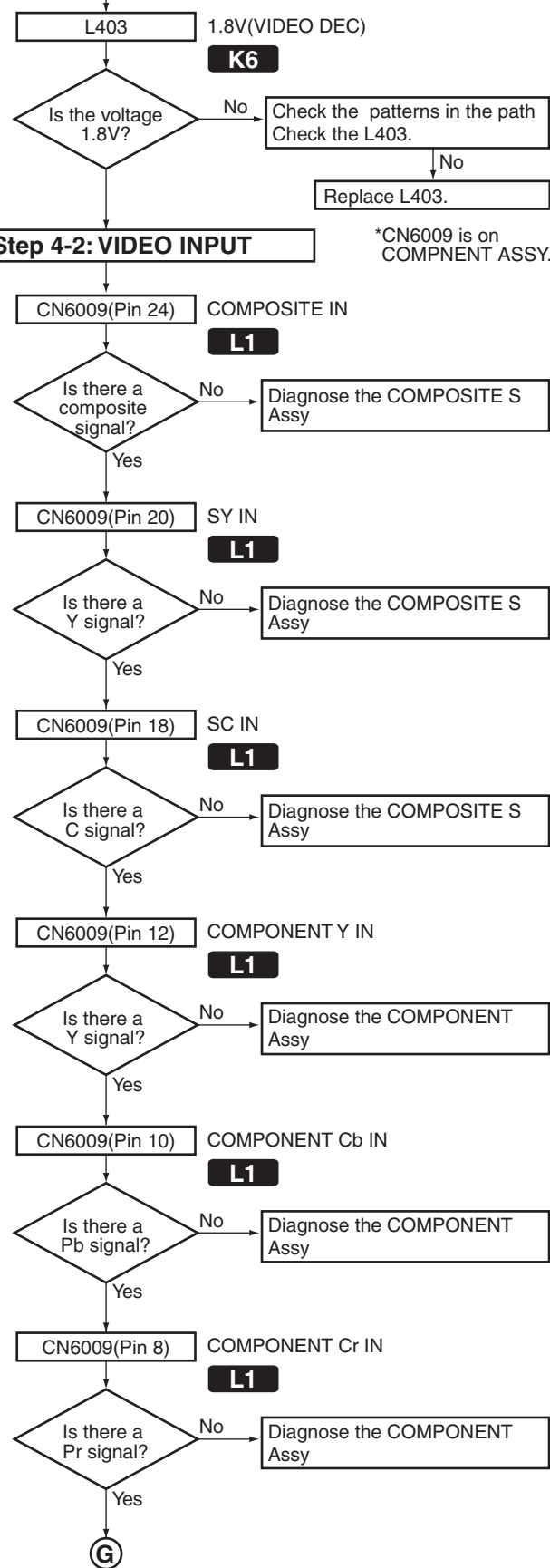


Video converter section

Step 4-1: Power supply



Step 4-2: VIDEO INPUT



G

Step 4-3: Reset

IC401(Pin 83) XVCRST(DEC)

M1

Is the voltage "H" (3.3V)?

No

Check the parts and patterns in the path(IC501 - IC401).

No

Replace IC501.

Yes

IC501(Pin 3) XVCRST(ENC)

M2

Is the voltage "H" (3.3V)?

No

Check the parts and patterns in the path(IC501 - IC601).

No

Replace IC501.

Yes

IC401(Pin 80) XTAL

M1

Is there a CLK (28.63636 MHz)?

No

Check the X401 or IC402.

No

Replace X401 or IC402.

Yes

Step 4-4: I2C

IC401(Pin 121) VCSDA

M1

Does a signal output in constant period (0 - 3.3 V)?

No

Check the parts and patterns in the path(IC501 - IC401 and IC501-IC601).

No

Replace IC501 or IC401 or IC601.

Yes

IC401(Pin 122) VCSCL

M1

Does a clock output in constant period (0 - 3.3 V)?

No

Check the parts and patterns in the path(IC501 - IC401 and IC501-IC601).

No

Replace IC501 or IC401 or IC601.

Yes

Step 4-5: VIDEO CLK, DATA

IC401(Pin 17) LLC

M1

Is there a CLK?

No

Check the parts and patterns in the path(IC401 - IC1301 and IC401-IC1381).

No

Replace IC401.

Yes

IC401(Pins 161-164, 155-158) P22-P29

N1

Is there a DATA?

No

Check the parts and patterns in the path(IC401 - IC1301 and IC401-IC1384).

No

Replace IC401.

Yes

IC401(Pins 21-28) P12-19

N1

*Only 480p/576p/720p/1080i input

Is there a DATA?

No

Check the parts and patterns in the path(IC401 - IC1301 and IC401 and IC1383).

No

Replace IC401.

Yes

R436,R435 P10, P11

N2

Is there a DATA?

No

Check the parts and patterns in the path(IC601 - IC401).

No

Replace IC401.

Yes

R431,R430 P20, P21

N3

Is there a DATA?

No

Check the parts and patterns in the path(IC601 - IC401).

No

Replace IC401.

Yes

R401(IC601 Side) LLC

N4

*Only 480i/576i input

Is there a CLK?

No

Check the parts and patterns in the path(IC401 - IC601).

No

Replace IC401.

Yes

R429,R428(IC601 Side) P22-29

N5

*Only 480i/576i input

Is there a DATA?

No

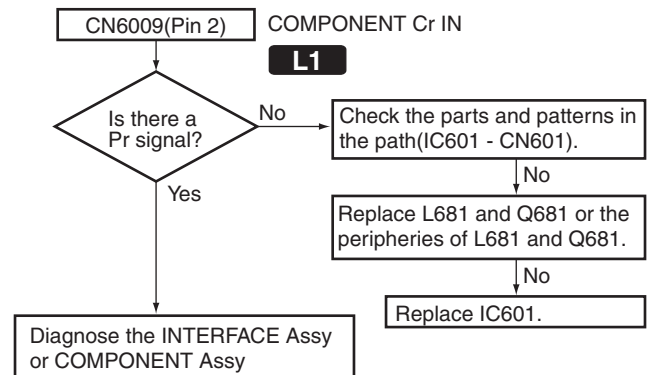
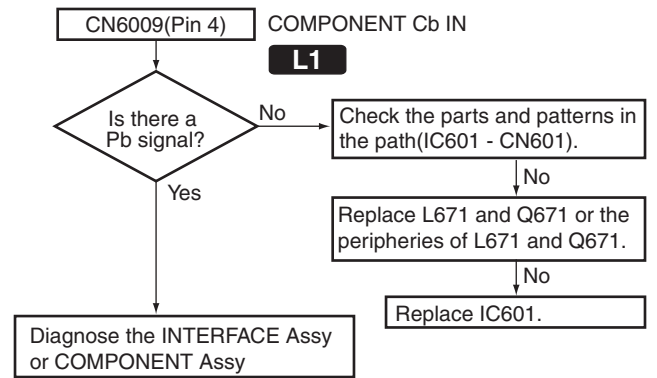
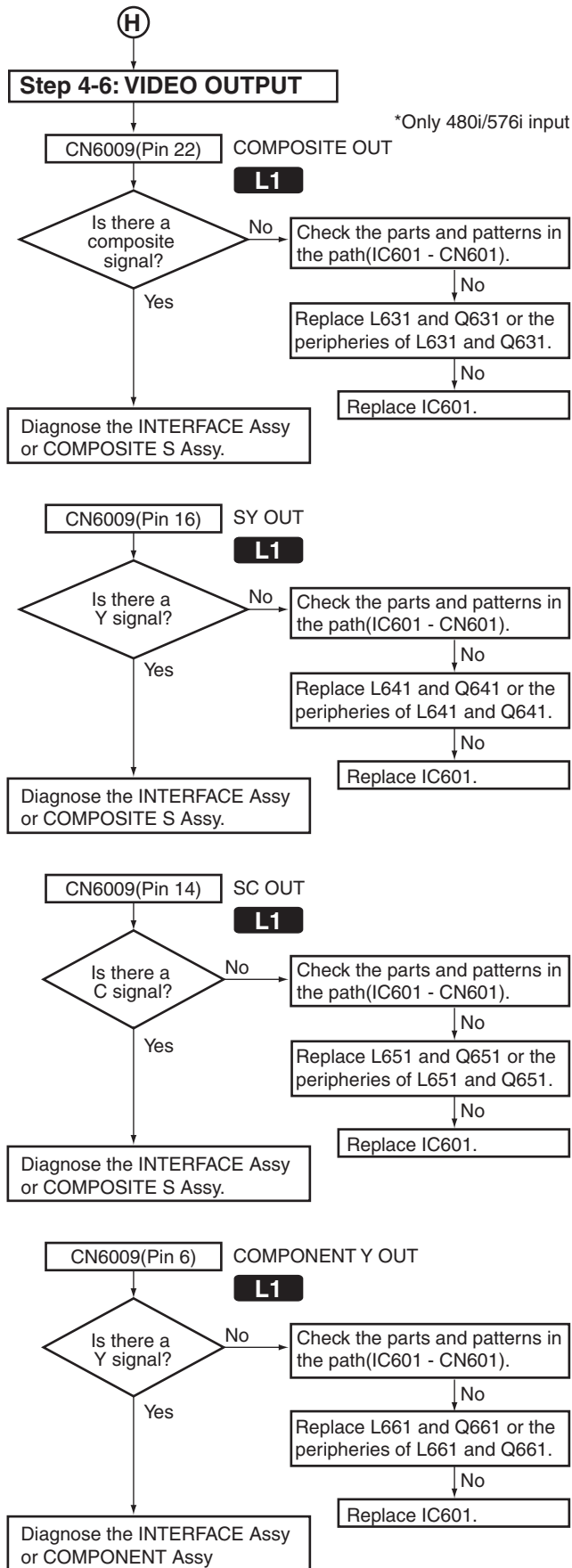
Check the parts and patterns in the path(IC401 - IC601).

No

Replace IC401.

Yes

H



Scaler section

A

Step 5-1: Power supply

L1302 3.3 V (Scaler)

O1Is the voltage
3.3 V?

No

Check the L1302.

No

Replace L1302.

Yes

L1303 3.3 V (Scaler)

O2Is the voltage
3.3 V?

No

Check the L1303.

No

Replace L1303.

Yes

L1301 1.8 V (Scaler)

O3Is the voltage
1.8 V?

No

Check the L1301.

No

Replace L1301.

Yes

L1304 1.8 V (Scaler)

O4Is the voltage
1.8 V?

No

Check the L1304.

No

Replace L1304.

Yes

L1305 1.8 V (Scaler)

O5Is the voltage
1.8 V?

No

Check the L1305.

No

Replace L1305.

Yes

L1351 3.3 V (SDRAM)

O6Is the voltage
3.3 V?

No

Check the L1351.

No

Replace L1351.

Yes

B

C

D

E

F

Step 5-2: X'tal, Reset

X1301 X'tal

P1Is oscillation
of 13.5 MHz
?

No

Check the X1301.

No

Replace X1301 or IC1301.

Yes

IC1301(Pin 47) XVCIRST

N1Is the voltage
"H"(3.3 V)?

No

Check the parts and patterns in
the path(IC501 - IC1301).

No

Replace IC501.

Yes

IC1301(Pin 46) VCSDA

N1Does
a signal output in
constant period
(0 - 3.3 V)
?

No

Check the parts and patterns in
the path(IC501 - IC1301).

No

Replace IC501 or IC1301.

Yes

IC1301(Pin 45) VCSCS

N1Does
a clock output in
constant period
(0 - 3.3 V)
?

No

Check the parts and patterns in
the path(IC501 - IC1301).

No

Replace IC501 or IC1301.

Yes

Step 5-3: INPUT

IC1301(Pin 4) LLC

N1Is there a
CLK?

No

Check the parts and patterns in
the path (IC401 - IC1301).

No

Replace IC401.

Yes

IC1301(Pins 29,
32-35,38-40) P22-29**N1**Is there a
DATA?

No

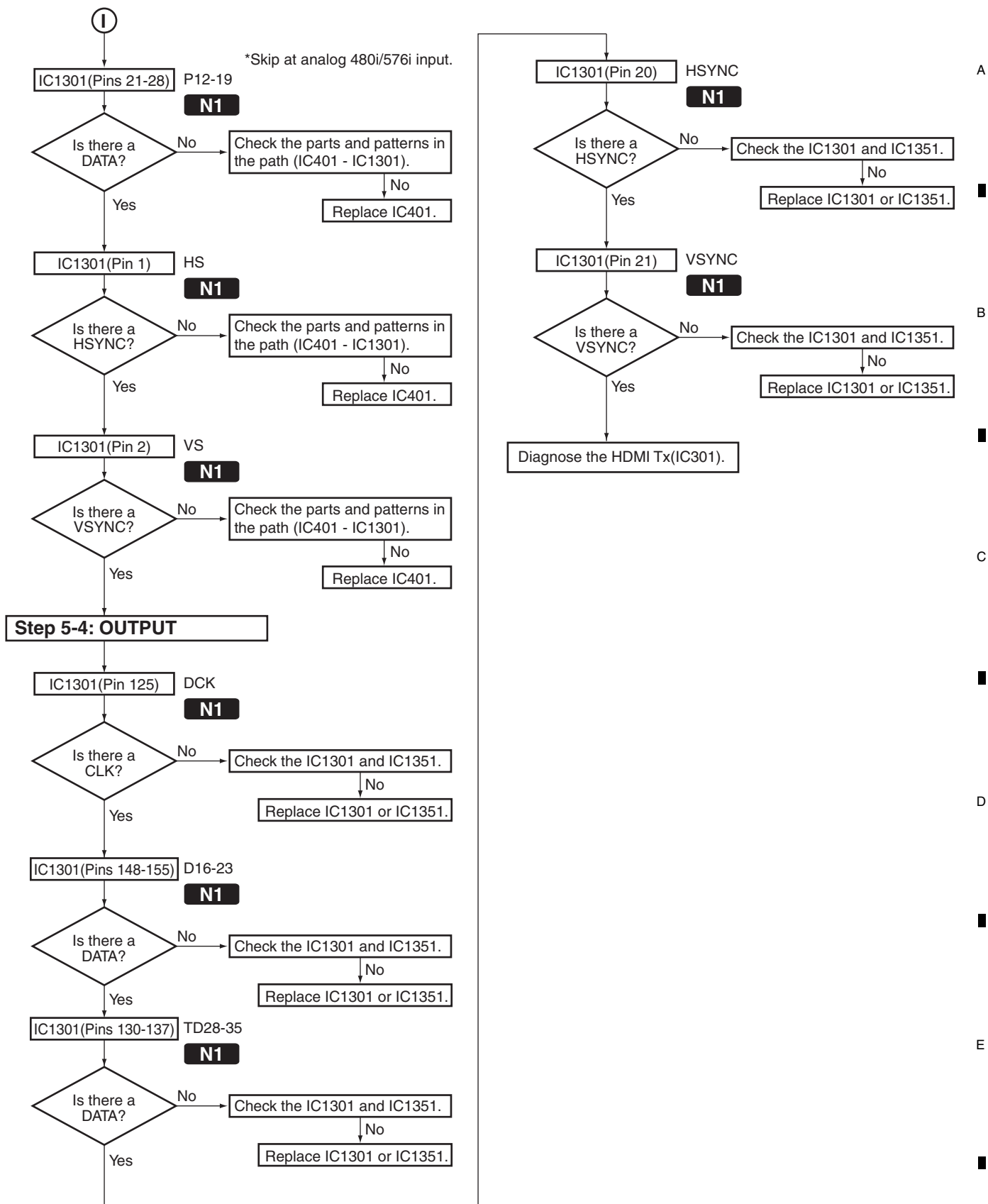
Check the parts and patterns in
the path (IC401 - IC1301).

No

Replace IC401.

Yes





GUI(EMMA) section

A

Step 6-1: Power supply

L1702 1.5 V (Scaler)

V+1R5HDIs the voltage
1.5 V?

No

Check the L1702.

No

Replace IC1702 or L1702.

Yes

L1703 1.5 V (Scaler)

V+1R5HDIs the voltage
1.5 V?

No

Check the IC1702.

No

Replace IC1702 or L1703.

Yes

L1902 2.5 V (Scaler)

V+2R5DDR_EMIs the voltage
2.5 V?

No

Check the IC1902.

No

Replace IC1902 or L1902.

Yes

L1701 3.3 V (Scaler)

V+3R3HDIs the voltage
3.3 V?

No

Check the IC1051.

No

Replace IC1051 or L1701.

Yes

L1706 3.3 V (Scaler)

V+3R3HDIs the voltage
3.3 V?

No

Check the IC1051.

No

Replace IC1051 or L1701.

Yes

E

Step 6-2: X'tal, Reset

X1701 X'tal

Q1Is oscillation
of 27.0 MHz
?

No

Check the X1701.

No

Replace X1701 or IC1703.

Yes

F

IC1701(Pin 143) RSTSWB

Q2Is the voltage
"H"(3.3 V)?

No

Check the CN1701 (Pin 6).

No

Diagnosis the D-MOTHER ASSY.

Yes

Step 6-3: Control

IC1701(Pin 114) EMMA SCK

Q2Does
a clock output in
constant period
(0 - 3.3 V)
?

No

Check the CN1701 (Pin 7).

No

Diagnosis the D-MOTHER ASSY.

Yes

IC1701(Pin 113) EMMA SI

Q2Does
a signal output in
constant period
(0 - 3.3 V)
?

No

Check the CN1701 (Pin 8).

No

Diagnosis the D-MOTHER ASSY.

Yes

IC1701(Pin 112) EMMA SO

Q2Does
a signal output in
constant period
(0 - 3.3 V)
?

No

Check the CN1701 (Pin 9).

No

Diagnosis the D-MOTHER ASSY.

Yes

IC1701(Pin 111) EMMA REQ1

Q2Does
a signal output in
constant period
(0 - 3.3 V)
?

No

Check the CN1701 (Pin 10).

No

Diagnosis the D-MOTHER ASSY.

Yes

IC1701(Pin 133) EMMA REQ0

Q2Does
a signal output in
constant period
(0 - 3.3 V)
?

No

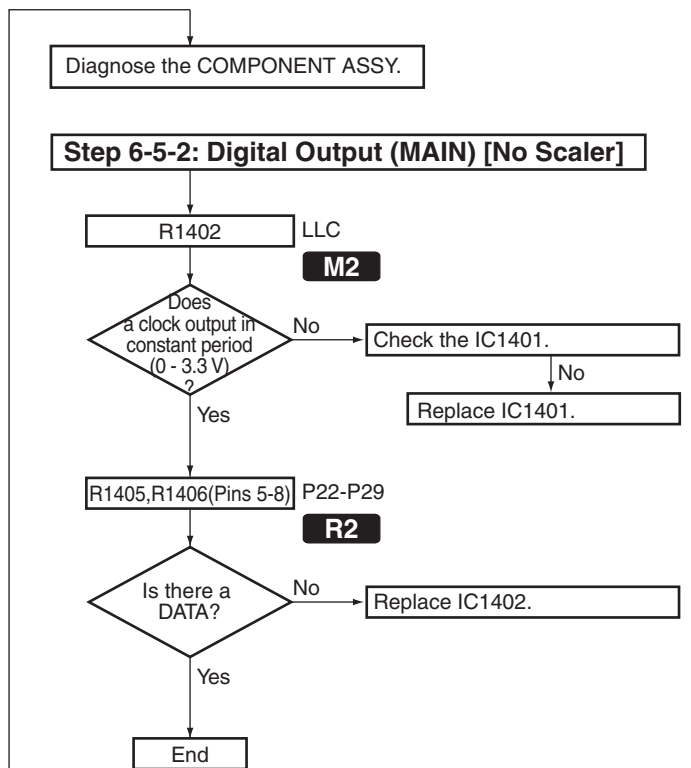
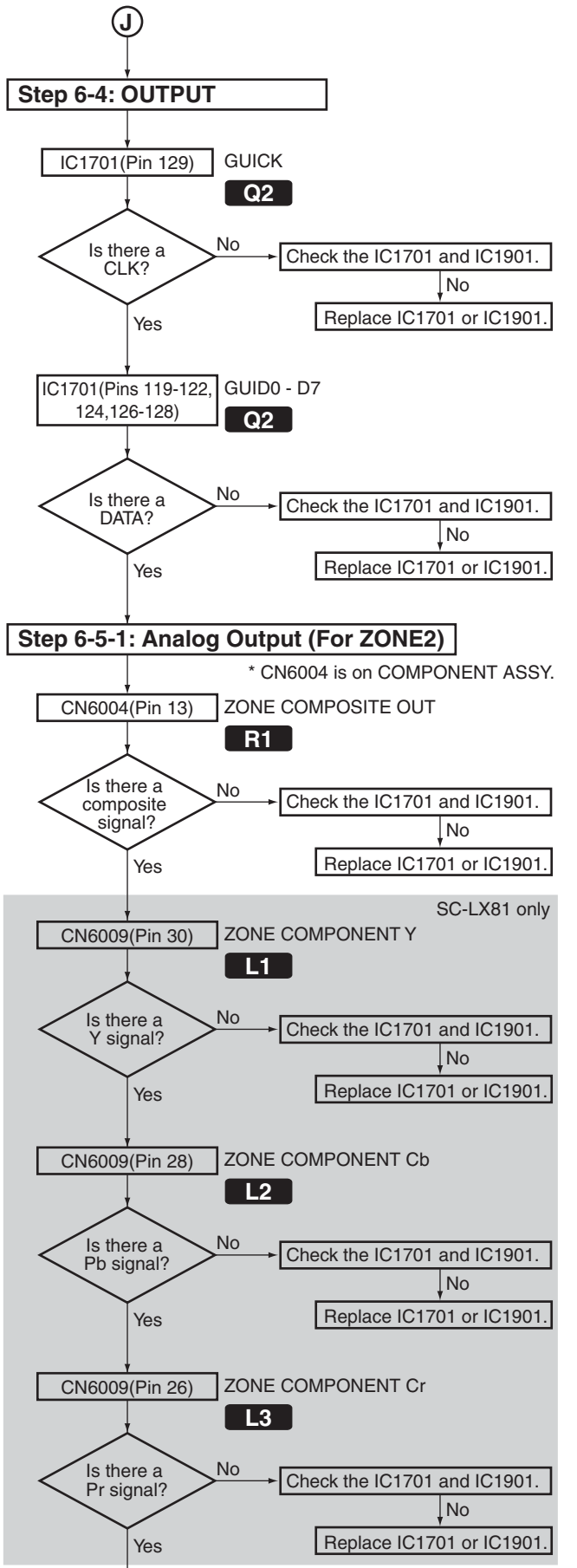
Check the CN1701 (Pin 11).

No

Diagnosis the D-MOTHER ASSY.

Yes

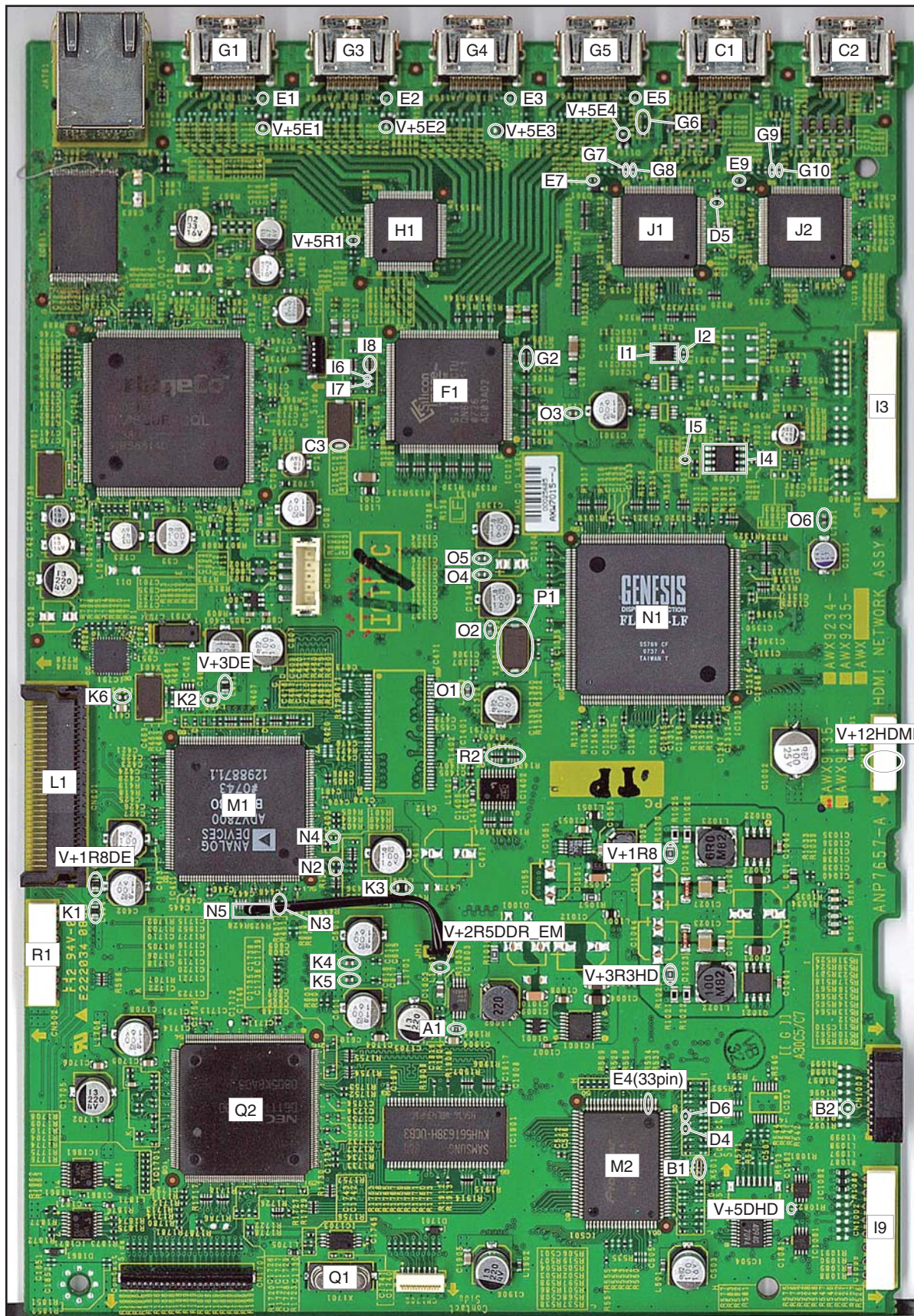
J



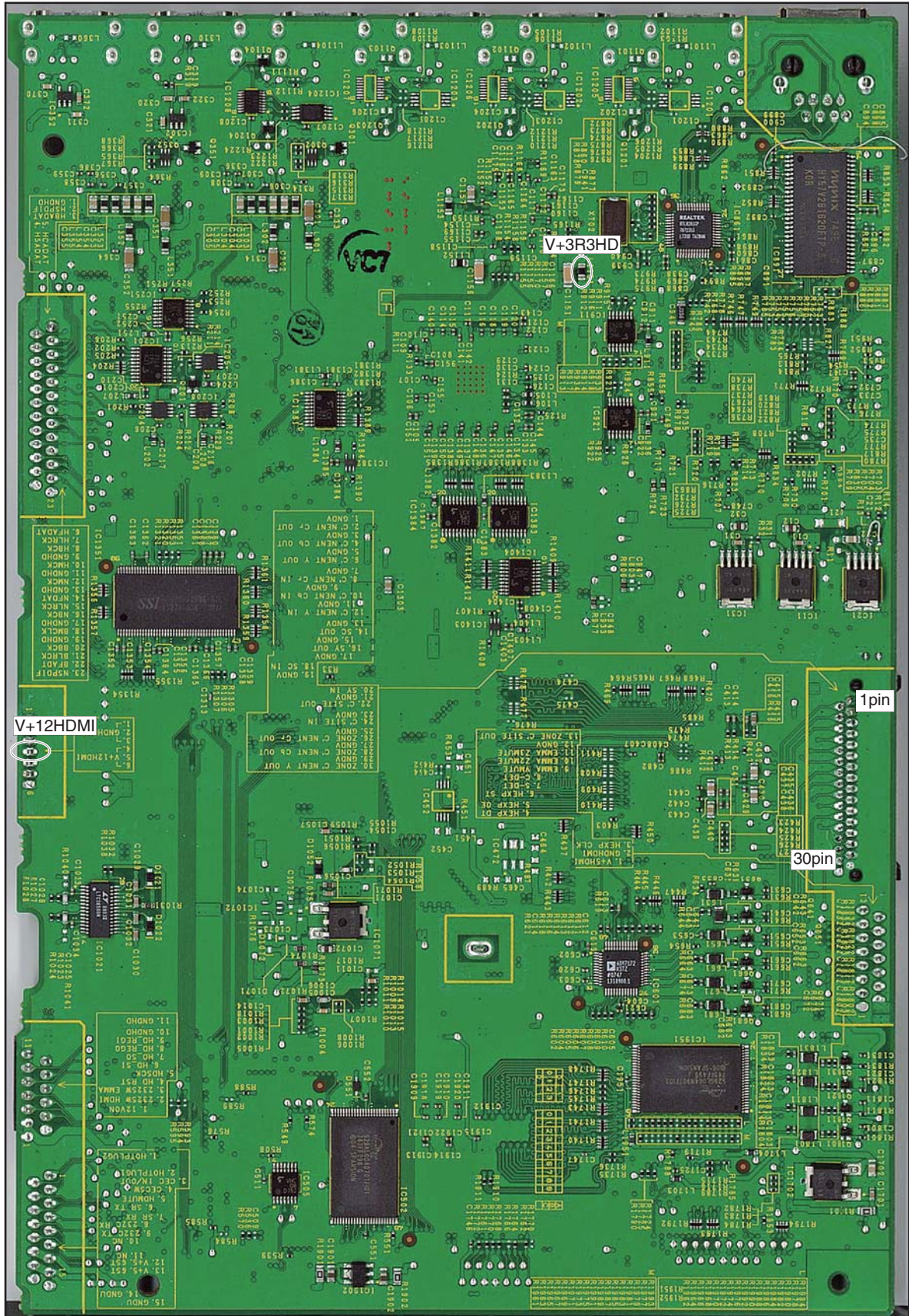
1) HDMI NETWORK Assy check points

E HDMI NETWORK ASSY

SIDE A



E HDMI NETWORK ASSY

SIDE B

SC-LX81

[4] Diagnosis of The Network Block

1) Constitution of network function

CD --- -- HDMI4 ---- HOME MEDIA GALLERY --

- USB
- Internet Radio
- Neural Music Direct -> Internet radio run by Neural
- Server1
- Server2
- Server3
- Favorites
- Setup

Information

- Firmware Version -> Indicates the version of the firmware.
- MAC Address -> Indicates MAC Address.
- IP Address -> Indicates IP Address.
- Gateway IP -> Indicates Gateway IP.
- Proxy Server -> Indicates if Proxy Server is valid or invalid.
- Subnet Mask -> Indicates Subnet Mask.

Network Setup

2) Flow chart for isolation of network malfunction

<Network connection>

- Internet Radio
 - Neural Music Direct
 - Favorites
 - Setup
- Only those items are shown.

LAN cable is connected?

No

- Check LAN cable (straight).
- Check the setting of IP address.
- Check the setting of broadband router.

Yes

The server software is working on PC?

No

- Install UPnP server (such as WMP11) on PC.
- Check the operation of the server software.

Yes

Can the list of the content be shown?

Yes

- Check the network setting of the connected device.
- Check if data sharing is permitted on the connected device.
- Check the audio format compatible with the used server (software).
-> On some servers, neither indication nor playback is performed even in the compatible format.

Malfunction of this unit

Can the contents be played?

No

- Check compatible audio format.
-> Some contents cannot be played even in the compatible format.

Yes

Malfunction of this unit

<Internet Radio connection> (Neural Music Direct is the same.)

Internet Radio does not operate (the sound does not play).

Are radio stations shown on the menu?

No

- Check LAN cable (straight).
- Check the setting of IP address.
- Check the setting of the broadband router.

Yes

Is selection of radio stations possible?

No

- Radio broadcasting is stopped temporarily.
-> The station list does not reflect the actual broadcast condition even if some broadcasts may have been stopped or abandoned.

Yes

Malfunction of this unit

<USB connection>

The unit does not operate (the sound does not play) with USB connected.

Is "USB" shown on the Top menu?

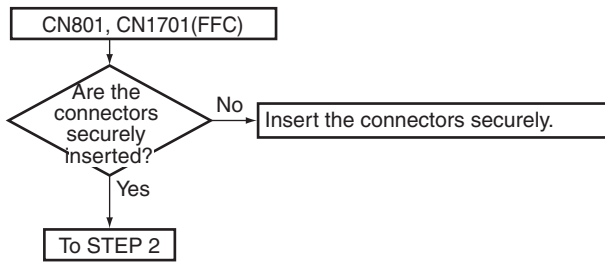
No

- Check if USB is a mass storage device.
- Check the bus power.
-> Power consumption of portable HDD, e.g. does not allow drive.
- Check the file format of USB.
FAT16 or 32 only can be used.

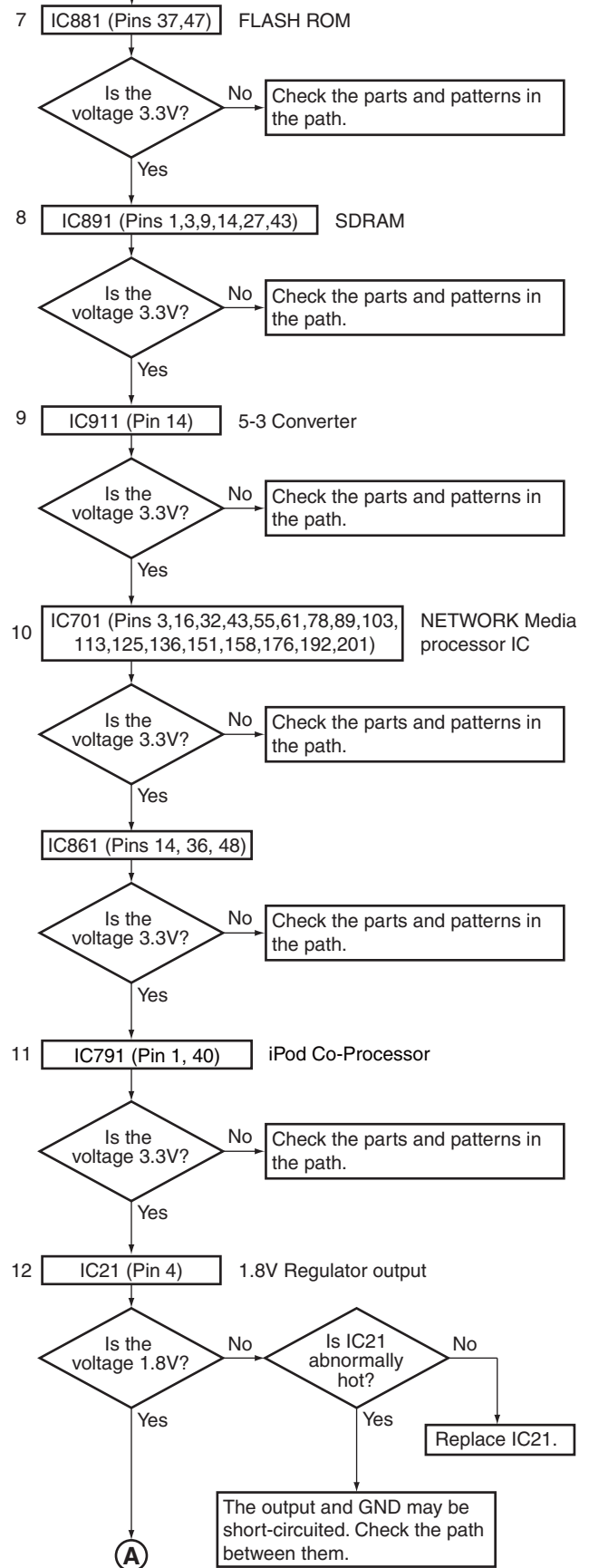
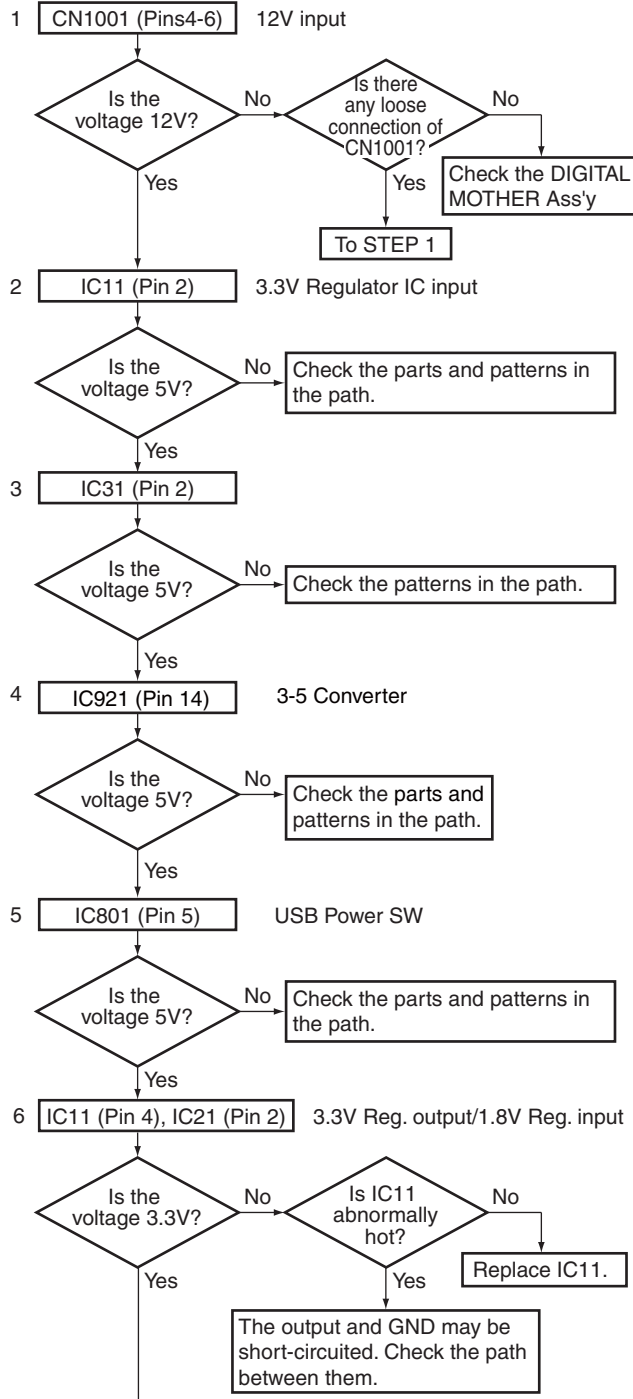
Yes

3) Network block troubleshooting

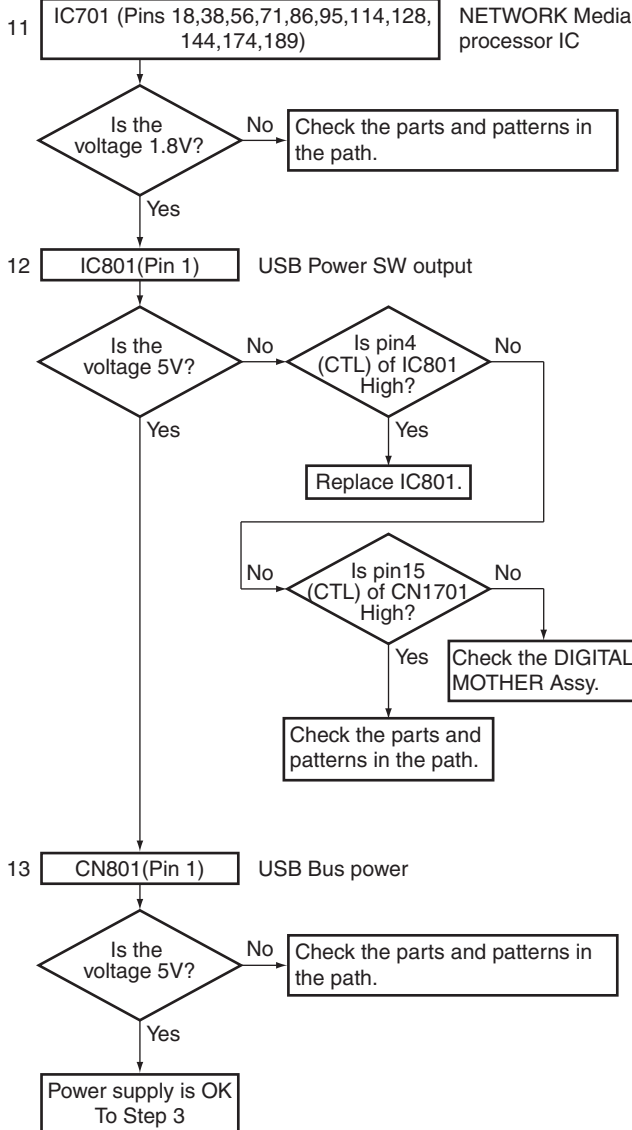
Step 1: Connectors



Step 2: Power supply

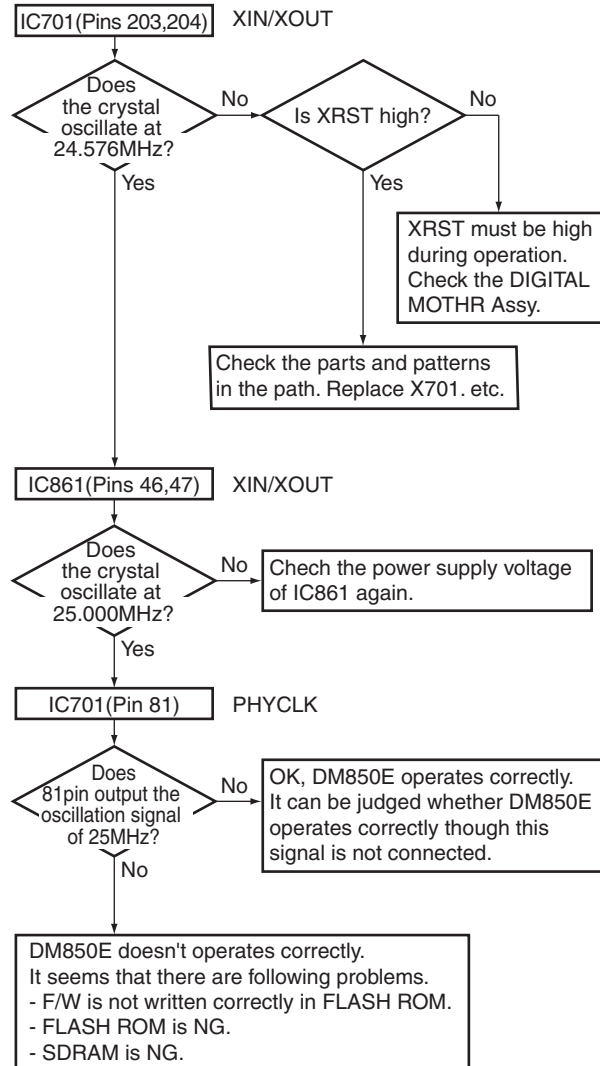


A



Step 3: Operation of Network Media processor IC

*Please confirm it with the USB memory connected for the content.



Step 4 : Communication between DM850E and System CPU

The signal shown by following fig are communication line of DM850E and main CPU(IC2001). Confirm the connection of the signals along these routes.

fig. 1

	CN901	IC911 (5V -> 3V)	IC701
XRST	Pin 12	Pin 12	Pin 11 Pin 190
SPI CS	Pin 21	Pin 2	Pin 3 Pin 143
SPI CLK3	Pin 14	Pin 5	Pin 6 Pin 141
SPI MOSI	Pin 18	Pin 9	Pin 8 Pin 147

fig. 2

	IC701	IC921 (3V -> 5V)	CN901
SPI MISO	Pin 146	Pin 9	Pin 8 Pin 19
SPI REQ3	Pin 100	Pin 5	Pin 6 Pin 20

Step 5 : Communication between DM850E and System CPU

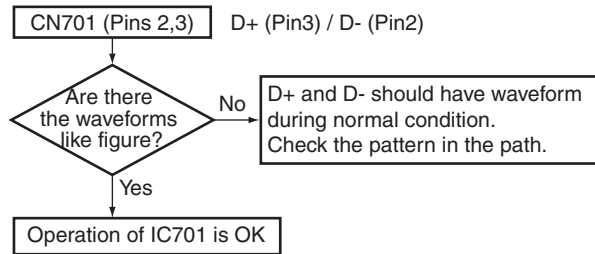
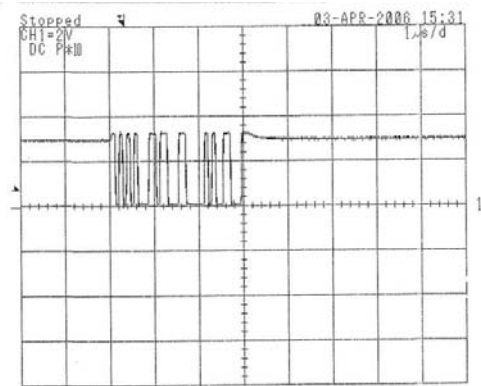
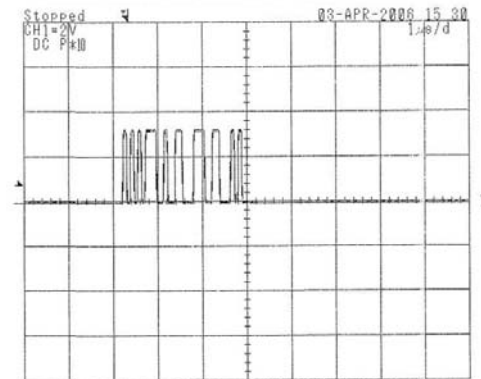


fig. : D+



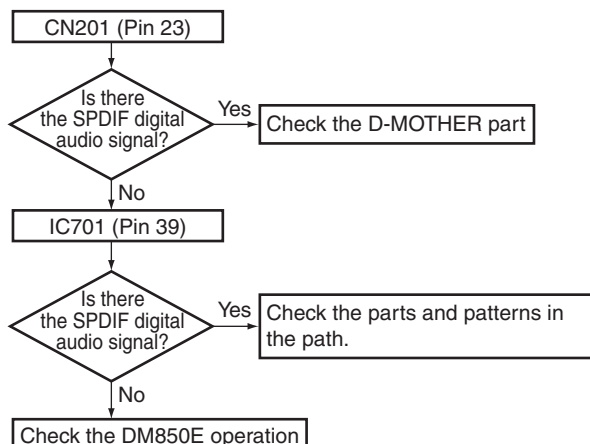
X : 1usec/div, Y : 2V/div

fig. : D-

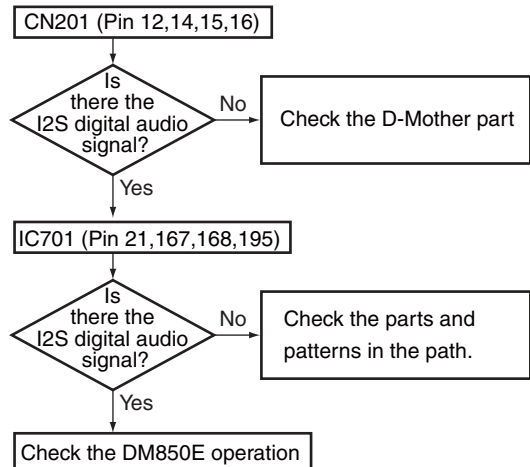


X : 1usec/div, Y : 2V/div

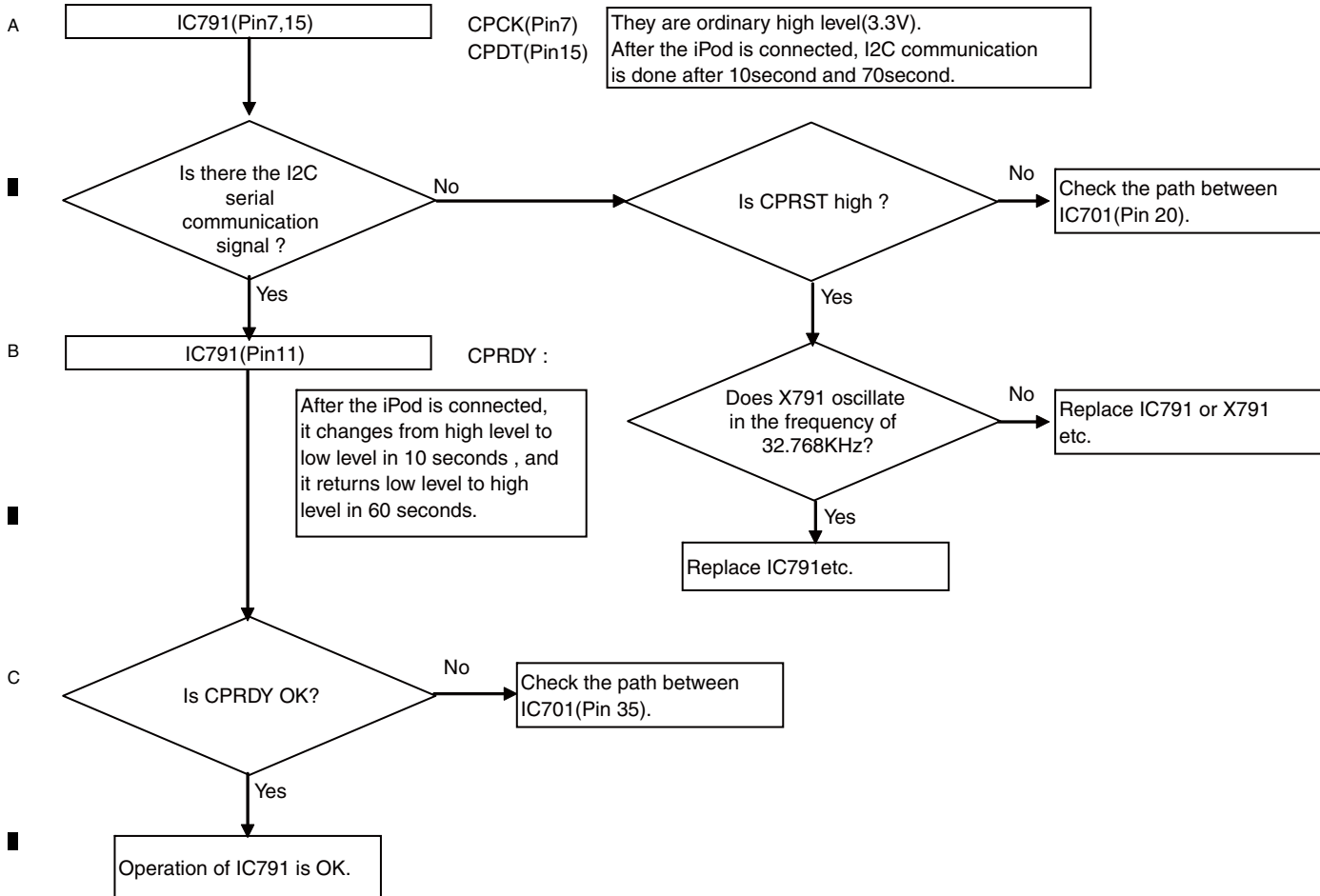
Step 6 : Audio Output



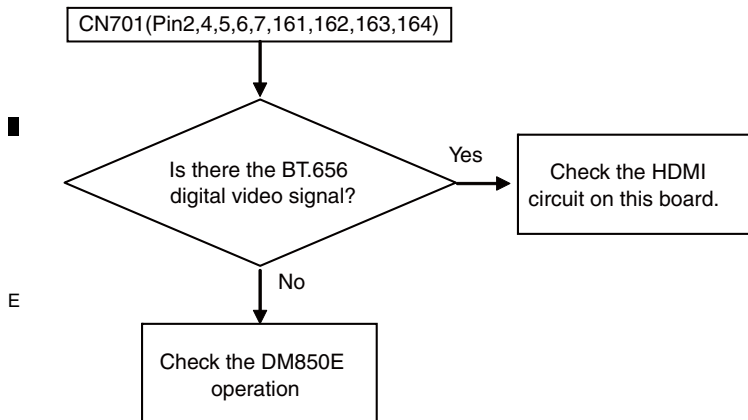
Step 7 : Audio Output (Zone2)



Step 8 : Communication between DM850E and iPod Co-Processor



Step 9 : Photo Image Output



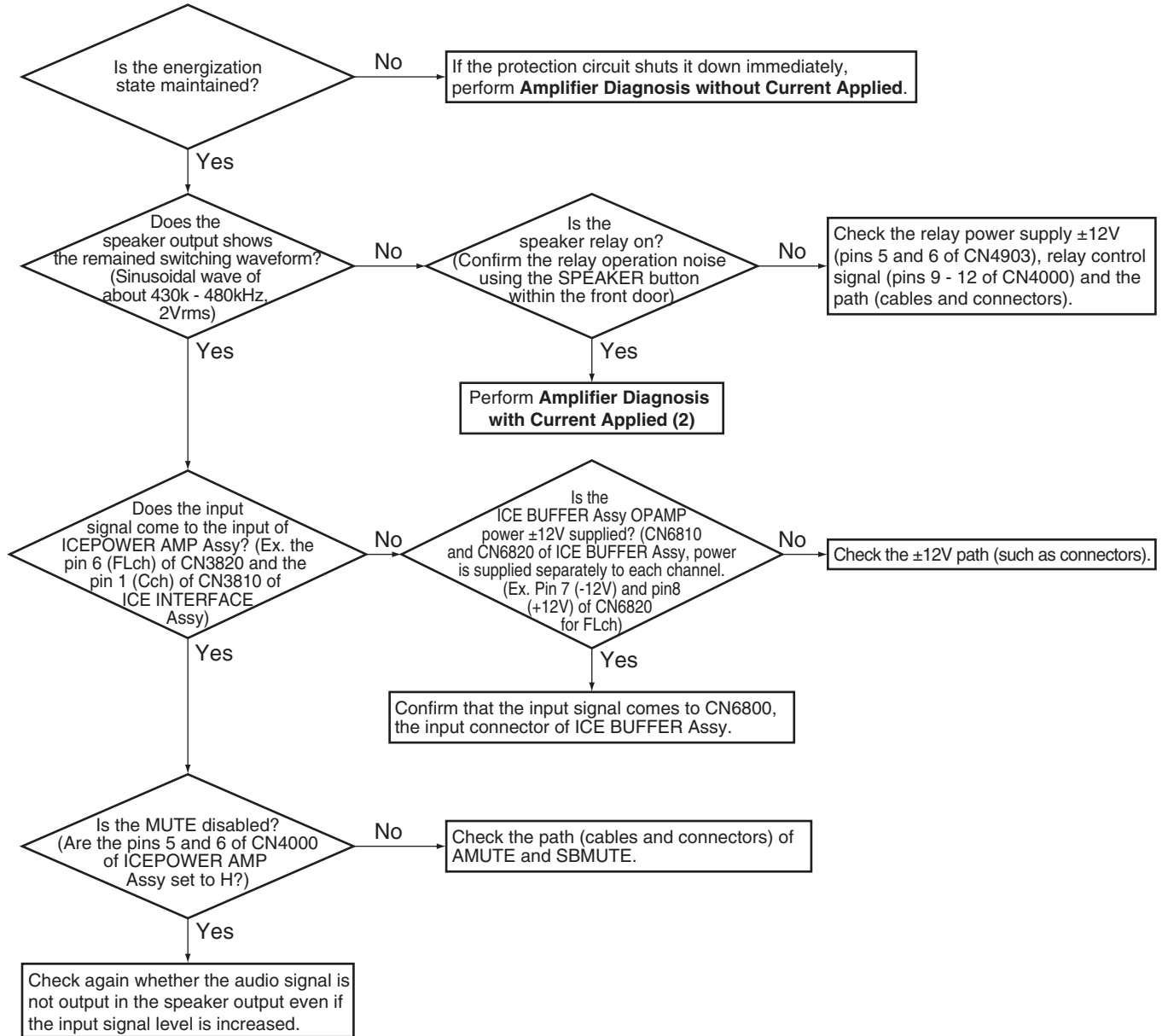
[5] Power Amp Section Troubleshooting

In the speaker output, the sinusoidal wave of about 430k - 480 kHz 2Vrms (when immediately after the current is applied with no signal/no load; the switching frequency varies by the connected load, signal level and the energizing time) is always output. It is the switching waveform ($\pm 64V$ square wave) in the output stage that has been attenuated through LPF. If such remained waveform can be observed, it can be assumed that the amplifier is operating normally.

When a signal is input to the amplifier, the output signal of the speaker shows the waveform such that the remained switching waveform is superimposed onto the audio signal. Note that when the input signal level is extremely small, it may not be easy to confirm the audio element since it is buried in the remained switching waveform (approximately 2Vrms).

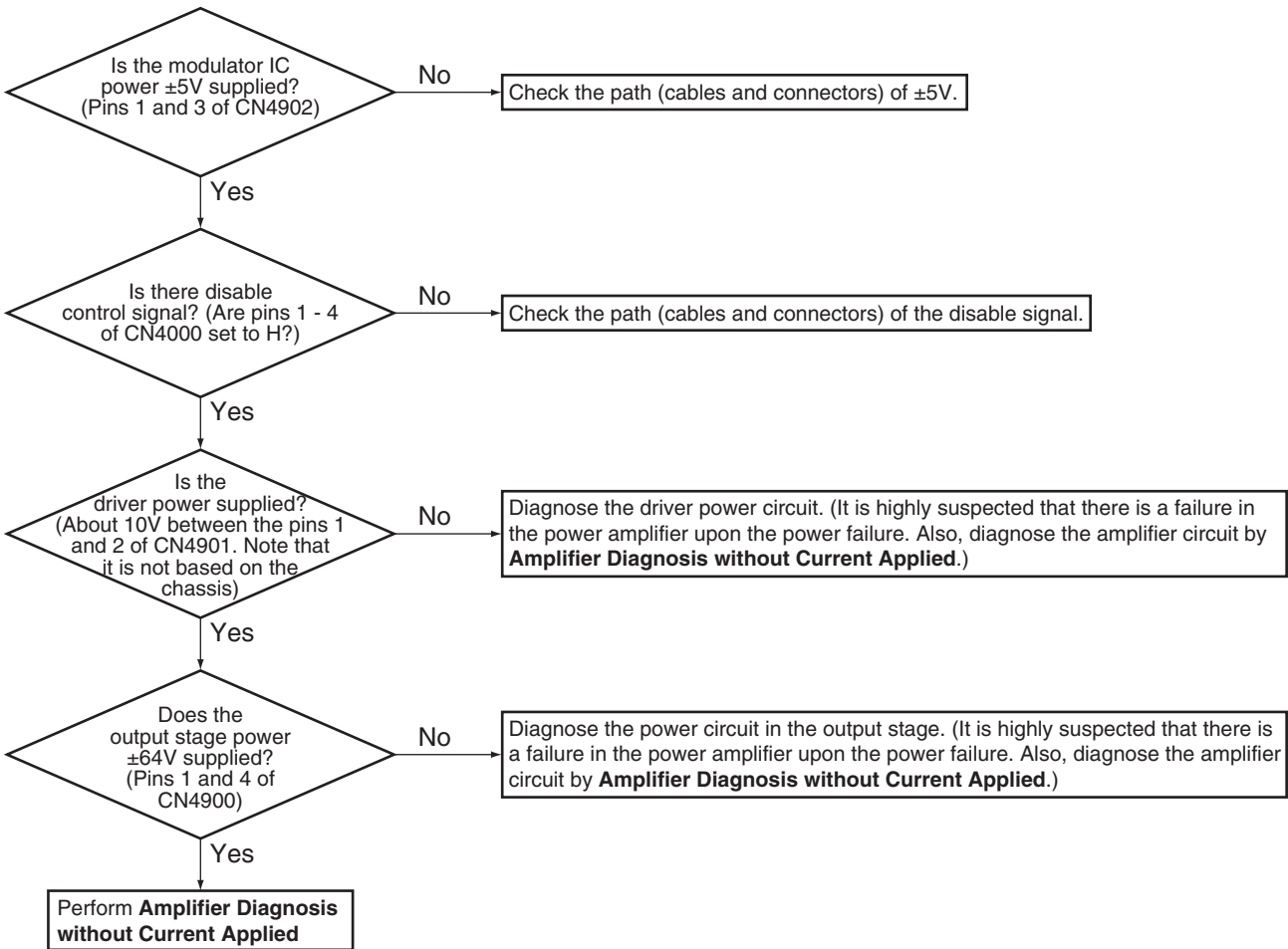
When no sound is produced with a specific function or sound mode, it is not caused by a failure in the power amplifier block. When there is a failure in the power amplifier block, no sound is produced with every function. It is recommended to set the speaker setting to "LARGE" for all the channels and the function to "MULTI CH IN" when examining the power amplifier.

Amplifier Diagnosis with Current Applied (1)



Amplifier Diagnosis with Current Applied (2)

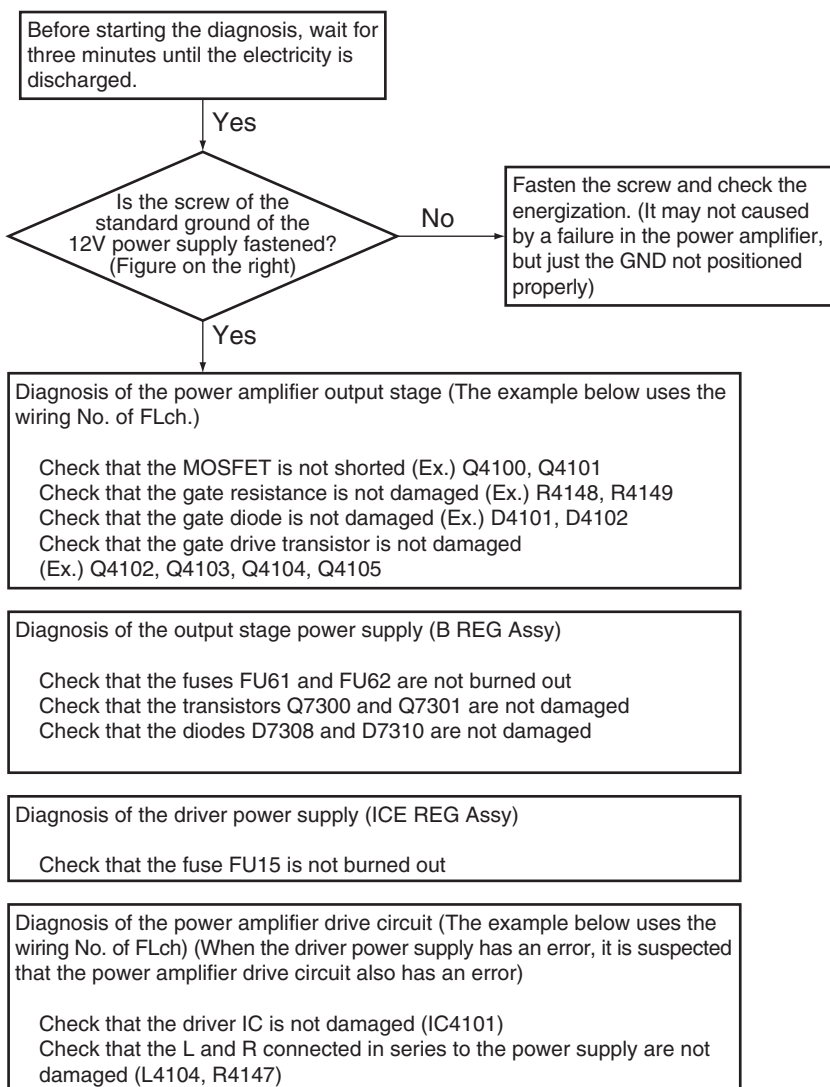
When the remained switching waveform is not observed in the speaker output, the amplifier is not operating. Here, confirm that the power and signal necessary for the amplifier to operate are supplied.



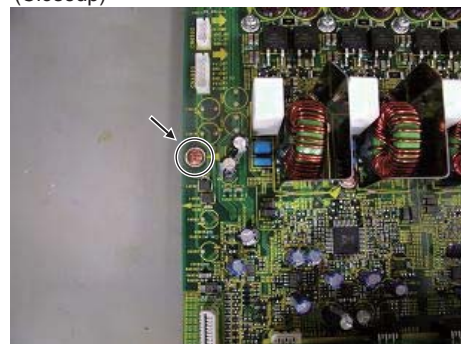
Amplifier Diagnosis without Current Applied

The most common symptom of the power amplifier failure is the destruction of the power amplifier output stage or the power amplifier power circuit due to the heavy load, which is, for example, caused by short of the speaker terminal or the use of the non-guaranteed low impedance speaker.

If the protection circuit immediately shuts it down immediately after the current is applied, it is highly likely that it is the above symptom. The procedure to diagnose/repair without applying current is shown below.



(Closeup)



5.2 CIRCUIT DESCRIPTION

[1] Protection Circuit Process List

B REG Power Supply

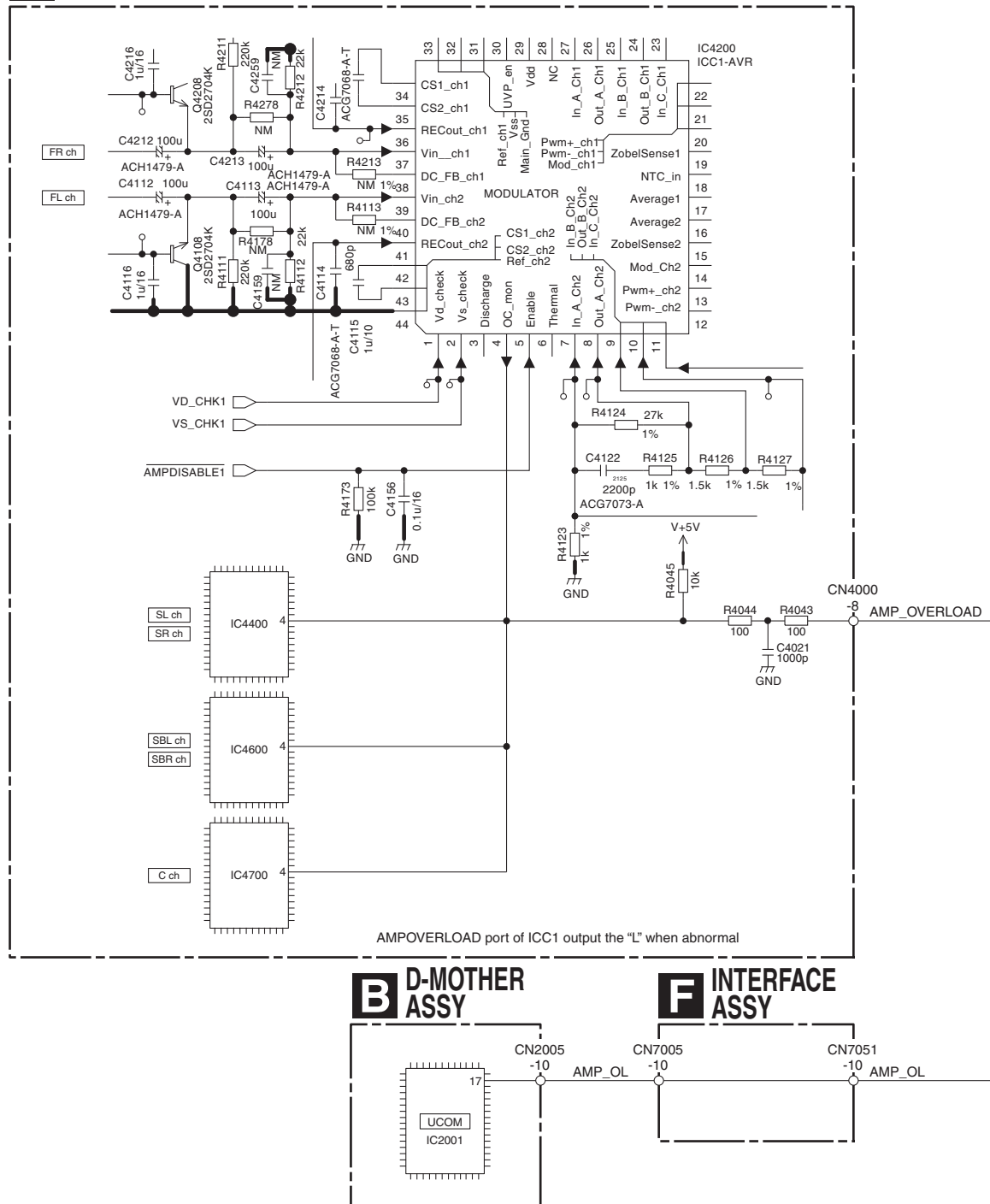
Item	Purpose	Detection Method	Status of Equipment	Warning Indication	Remarks
B REG power supply overheat detection	Detects overheat of transistor(s) in B REG power supply circuit	Detects when posistor detection temperature exceeds 120°C and BTMP port becomes "H". (IC2001 48pin)	Flashes "OVERHEAT" indicator. Shuts down at continuation for more than 3 seconds. LED indicator continues blinking.	"OVERHEAT" and 3 second flashing. Blinks ICE blue LED indicator.	Recoverable by power-on
B REG power supply failure detection	Detect abnormal voltage drop when B REG transistor(s) becomes failure	Detects output voltage of B REG power cuicuit decreases below 38V and BERR port becomes "L". (IC2001 47pin)	Shuts down	Blinks MCACC LED	Unrecoverable

Amplifier Circuit

Item	Purpose	Detection Method	Status of Equipment	Warning Indication	Remarks
Overheat detection	Detects MOS FET temperature of amplifier output stage	Detects when TEMPERR PORT becomes "L" in case of the detecting temperature exceeds 95°C or rapid change by short cuicuit of speaker terminals. (IC2001 89pin)	Shuts down with FL indication of "AMP OVERHEAT". LED indicator continues blinking.	Indicates "AMP OVERHEAT". Blinks ICE blue LED indicator.	Recoverable by power-on
		Detects when MAXTEMP port becomes below 3.3V at NTC Thermistor detect circuit. (IC2001 91pin)	Fan rotates below 3.3V.		
DC detection	Detects DC of amplifier output (After LPF)	Detects when SP output exceeds DC $\pm$ 7V and DCERR port becomes "L". (IC2001 90pin)	Let MUTE on, Speater Relay off and shuts down 3 seconds after to blink MCACC LED.	Flashes "AMP ERR"indicator. Blinks MCACC LED	In case of detecting DC abnormality during power-on sequence after detecting DC. Unrecoverable
			Let MUTE on, Speater Relay off and shuts down 3 seconds after to blink ICE blue indicator.	Flashes "AMP ERR"indicator. Blinks ICE blue LED indicator.	In case of detecting DC abnormality during normal operation. Recoverable by power-on after 1 minute.
Fan abnormality detection	Detects a Fan not rotating by loose connector or Fan lock when controlling the Fan rotation	Detects when FANDET port becomes "L". (IC2001 88pin)	Shuts down when abnormality continues for more than 3 seconds.	Flashes "FAN STOP"indicator. Blinks Digital Video Scaler LED	Recoverable by power-on
Zobel detection	Protects overcurrent by Zobel Resistance when high power output of higher frequency continued	Detects OLERR port becomes "L". (IC2001 17pin)	Shuts down	Blinks PHASE CONTROL LED	Recoverable by power-on
Overcurrent detection	Protects overcurrent of MOS FET in output stage when overcurrent flows at the output stage	Detects OLERR port becomes "L". (IC2001 17pin)	Shuts down	Blinks PHASE CONTROL LED	Recoverable by power-on
Low Voltage detection (Amplifier power supply)	Detects low voltage when amplifier power supply voltage (normally $\pm$ 64V) becomes below $\pm$ 42V	Detects OLERR port becomes "L". (IC2001 17pin) AMP_Overload DET	Shuts down	Blinks PHASE CONTROL LED	Recoverable by power-on
Low Voltage detection (Modulator IC)	Detects low voltage of modulator IC power supply (normally $\pm$ 5V) becomes below $\pm$ 2 - 3V	No micro-computer detection exists.	No micro-computer control but modulator IC stops by itself.		Recoverable by power-on

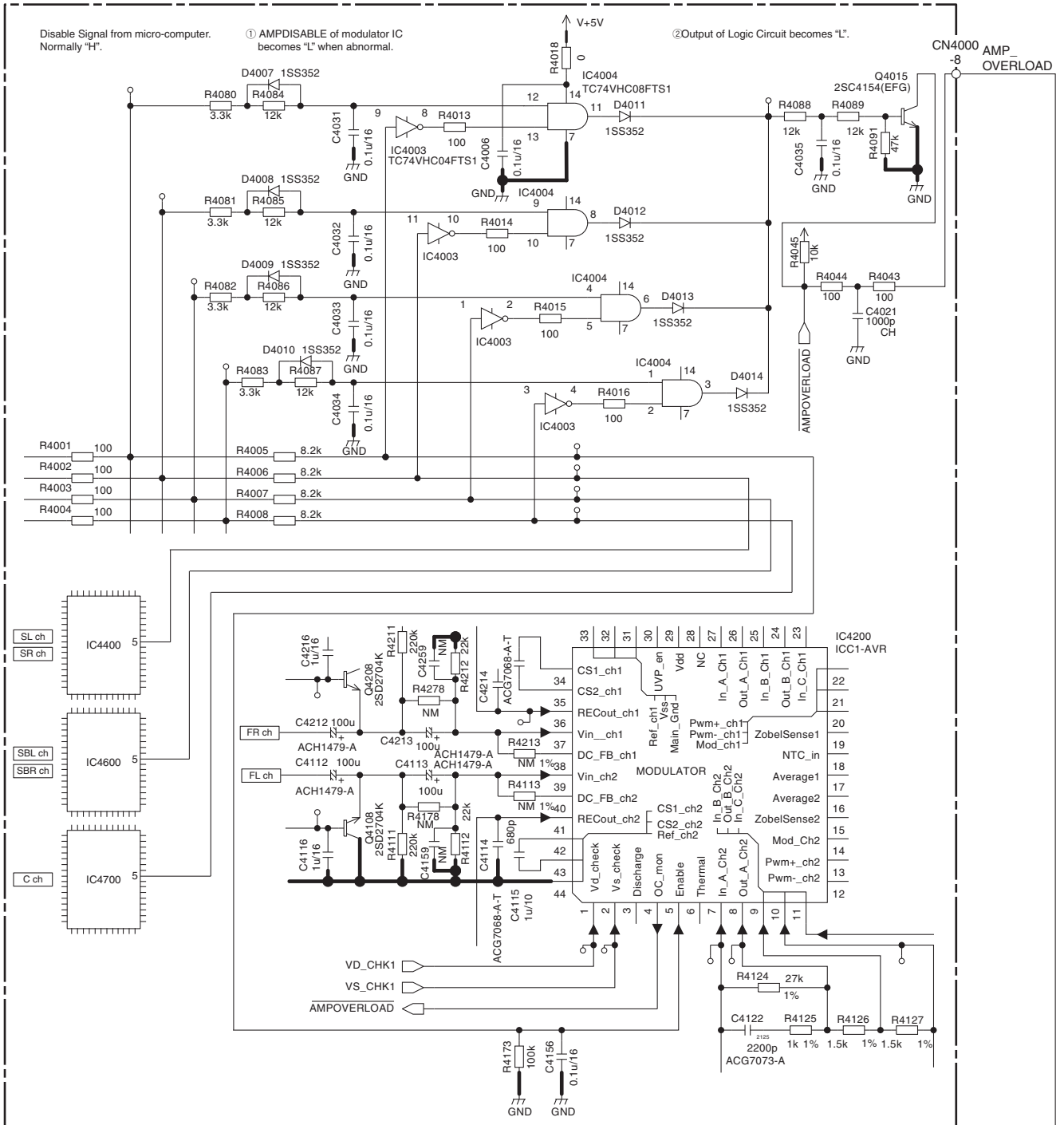
Zobel Detection Over Current Detection of MOS FET in Output Stage

ICEPOWER AMP ASSY



Low Voltage Detection for Amplifier Power Supply

Q ICEPOWER AMP ASSY



[2] Error Indications When an Abnormality in The Amplifier System Is Detected

[Purpose]

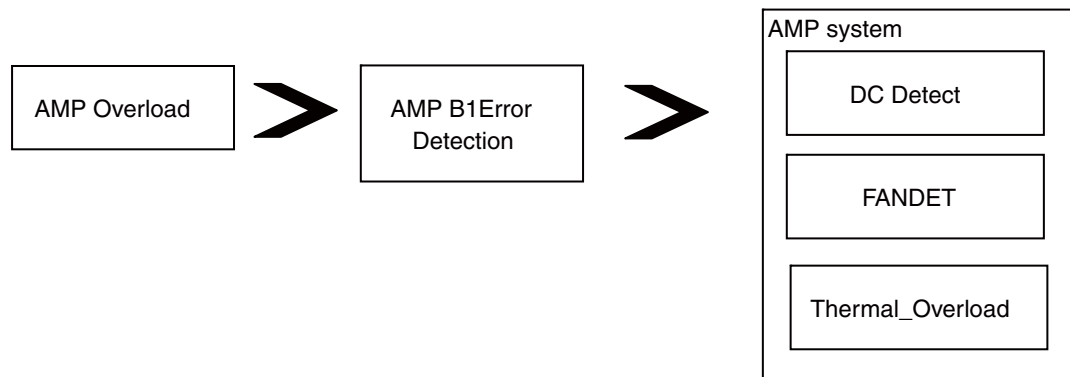
Errors upon detection of abnormalities in the amp system are indicated.

[Error indications]

	FL Display	LED flashes	Status	Timing (sec.)	Remarks
(1)	AMP ERR	ICE Blue LED	When the AMP DC is detected during normal operation.	FL flashes 3 times. LED flashes after the power off.	
		MCACC LED	When the AMP DC is detected during power-on sequence after the DC output was once detected.	FL flashes 3 times. LED flashes after the power off.	
(2)	NA	PHASE CONTROL	When an abnormality of electric current of output stage is detected.	LED flashes after the power off.	
(3)	NA	PHASE CONTROL	When an abnormality of overheat of output stage is detected.	LED flashes after the power off.	
(4)	FAN STOP	VIDEO SCALER	When an abnormality is detected in the fan for the AMP.	FL flashes 3 times. LED flashes after the power off.	
(5)	OVERHEAT	ICE Blue LED	When an abnormality of overheat is detected in the power supply B REG circuit.	FL flashes 3 times. LED flashes after the power off.	Abnormality detection in the power supply B REG circuit
(6)	NA	MCACC LED	When an abnormality is detected in the output voltage of the power supply B REG circuit.	LED flashes after the power off.	
(7)	12V TRG ERR	NA	When the 12V trigger circuit is short-circuited.	Flashes	
(8)	USB ERROR1	NA	When the overload USB device (over500 mA) is connected.	Flashes	
(9)	HDCP ERROR	NA	When an HDCP ERROR is detected.	Flashes 5 seconds	Warning indication for HDMI Simplay
(10)	NOT SUPPORT	NA	When the monitor outputs a non supported video format.	Flashes 5 seconds	
(11)	HDMI NG	NA	When an error is detected during communication with the HDMI micro-computer.	Flashes	Warning indication for microcomputer communication
(12)	DSP NG	NA	When an error is detected during communication with the DSP micro-computer.	Flashes	

[Detection and display priority]

In principle, the abnormality is preferentially detected as the following order.



[Descriptions]

(1)	AMP ERR	In Normal Operation mode, if a failure in the amp block or high DC output is detected, "AMP ERR" appears and starts flashing, and the shutdown process starts. The power is shut off, and the ICE Blue LED starts flashing. To restore the previous status 1 minutes or more after a shutdown, just turn the unit back on.
		If a failure in the amp block or high DC output is detected during a power-on sequence after high DC output was once detected, "AMP ERR" appears and starts flashing, and the shutdown process starts. The power is shut off, and the MCACC LED starts flashing. To restore the previous status, follow the procedure described in "How to Enter Release Mode" below then turn the unit back on. If the unit shuts off again, the AMP block may be in failure.
(2)	Overcurrent detection	Upon detection of overcurrent in the MOSFET at the amp output stage, the unit power off immediately, and the PHASE CONTROL LED starts flashing. The previous stage will be restored when the unit is turned back on.
(3)	Overheat detection	If abnormality temperature is detected in the MOSFET at the amp output stage, the unit power off immediately, and the PHASE CONTROL LED starts flashing. To restore the previous status, turn the unit back on.
(4)	FAN STOP	If abnormality is detected in the fan for the AMP, "FAN STOP" appears and starts flashing, and the shutdown process starts. The power is shut off. The VIDEO SCALER LED starts flashing. To restore the previous status, turn the unit back on.
(5)	OVERHEAT	If abnormality temperature is detected in the power supply B REG circuit, the unit power off immediately, and the ICE Blue LED starts flashing. To restore the previous status, turn the unit back on.
(6)	Failure in the power supply B REG circuit	If abnormality voltage is detected in the power supply B REG circuit, the unit power off immediately, and the MCACC LED starts flashing. To restore the previous status, follow the procedure described in "How to Enter Release Mode" below then turn the unit back on. If the unit shuts off again, the AMP block may be in failure.
(7)	12V TRG ERR	The 12V trigger circuit is short-circuited, and a overcurrent is generated.
(8)	USB ERROR1	The connected USB device is overload.
(9)	HDCP ERROR	The monitor does not support HDCP type or is in standby mode.
(10)	NOT SUPPORT	When an input analog signal is converted and output as an HDMI signal (via the scaler), the output signal is of a resolution not supported by the connected monitor.
(11)	HDMI NG	There is no response from the HDMI microcomputer.
(12)	DSP NG	There is no response from the DSP microcomputer.

[How to Enter Release Mode]

During Standby mode, simultaneously press and hold the " ↓ (DOWN)" and "ZONE2 ON/OFF" keys for 2 seconds.

6. SERVICE MODE

6.1 TEST MODE

A

The Service mode has three functional blocks (VERSION block, PROTECT block and DOWNLOAD block).

[1] How to Enter The Service Mode

1. Turn off MULTI-ZONE. Lower MASTER VOLUME to the minimum (---dB) and turn off the power.
2. After the power-off, press and hold down both the "ENTER" key and the "MULTI-ZONE ON/OFF" key for approximately five seconds.

[2] How to Exit The Service Mode

Turning off the power or pressing the RETURN key returns to the normal mode.

[3] Mode Transition Methods For Each of The VERSION Block, PROTECT Block and DOWNLOAD Block

B

*If no key is pressed within 10 seconds, the Service mode returns to the normal mode.

Key operation	FL display
VERSION block 1/4 Display MAIN / EVENT microcomputer. [→] [←]	M1 . 0 0 0 E 1 . 0 0 0
PROTECT block 1/11 Display number of times DC is detected. [→] [←]	DC : 0 0 0
DOWNLOAD block 1/7 Display MAIN computer DOWNLOAD. [→] [←] Return to VERSION block 1/4.	MAIN DL [START]

D

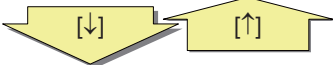
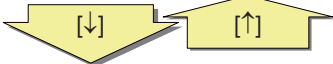
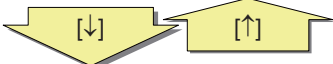
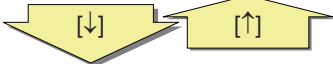
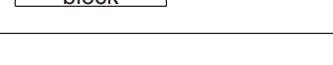
E

F

1) VERSION block

This block displays version information of various microcomputers and DSP firmware.

*If no key is pressed within 10 seconds, the Service mode returns to the normal mode.

Key operation	FL display	Explanation on displayed versions
Test mode ON 		
VERSION block 1/4 MAIN/EVENT microcomputer 	M 1 . 0 0 0 E 1 . 0 0 0	M * . *** : MAIN microcomputer E * . *** : EVENT microcomputer
VERSION block 2/4 DISPLAY (EMMA) microcomputer 	D I S P 1 . 0 0 0	DISP * . *** : DISPLAY microcomputer
VERSION block 3/4 DSP/HDMI microcomputer 	D 1 . 0 0 0 H 1 . 0 0 0	D * . *** : DSP microcomputer H * . *** : HDMI microcomputer
VERSION block 4/4 1stDSP/2ndDSP firmware 	f 1 . 0 0 0 s 1 . 0 0 0	f * . *** : 1st DSP firmware s * . *** : 2nd DSP firmware
To PROTECT block 		

2) PROTECT block

This block displays number of times protection processing is detected.

*If no key is pressed within 10 seconds, the Service mode returns to the normal mode.

Key operation	FL display
PROTECT block 1/11 Display number of times DC is detected. ↓ ↑	DC : 0 0 0
PROTECT block 2/11 Display number of times OVERLOAD is detected. ↓ ↑	OVER : 0 1 0
PROTECT block 3/11 Display number of times COMBINATION is detected. (Detects DC and OVERLOAD simultaneously) ↓ ↑	CON : 0 0 2
PROTECT block 4/11 Displays number of times FAN error is detected. ↓ ↑	FAN : 0 0 2
PROTECT block 5/11 Display number of times overheat is detected. ↓ ↑	TEMP1 : 2 5 5
PROTECT block 6/11 Display number of times abnormal temperature is detected. ↓ ↑	TEMP2 : 2 5 5
PROTECT block 7/11 Displays number of times abnormal temperature at PowerAmp supply is detected. ↓ ↑	BTMP : 1 2 6
PROTECT block 8/11 Display number of times defect at PowerAmp supply is detected. ↓ ↑	BERR : 1 2 5

Key operation	FL display
PROTECT block 9/11 Resetting the number of times error is detected [↓] [↑]	RESET ◀ HOLD ▶
PROTECT block 10/11 Display accumulated time & RESET. [↓] [↑]	1 2 3 4 5 h 2 0 m ◀ H L D ▶
PROTECT block 11/11 The Timer of Exception "Set Stream Path" command on CEC. [↓] [↑]	E X . S S P ◀ 1 5 0 0 m s ▶
To DOWNLOAD block	

Resetting the number of times error is detected

Key operation	FL display
[←][→]	RESET ◀ CLEAR ? ▶
[ENTER]	RESET [RESET]
To normal mode	

Resetting the accumulated time

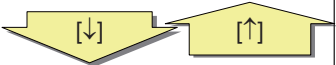
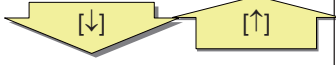
Key operation	FL display
[←][→]	1 2 3 4 5 h 2 0 m ◀ CL ? ▶
[ENTER]	0 h 0 m ◀ RST ▶
To normal mode	

Setting of the Timer of Exception "Set Stream Path" command on CEC.

Key operation	FL display
[←][→]	E X . S S P ◀ 6 0 0 m s ▶
To normal mode	

3) DOWNLOAD block

This block enters the rewriting mode of various microcomputers and DSP firmware.

Key operation	FL display
DOWNLOAD block 1/7 MAIN computer DOWNLOAD 	MAIN DL[START]
DOWNLOAD block 2/7 EVENT computer DOWNLOAD 	EVNT DL[START]
DOWNLOAD block 3/7 DISP computer DOWNLOAD 	DISP DL[START]
DOWNLOAD block 4/7 DSP computer DOWNLOAD 	DSPM DL[START]
DOWNLOAD block 5/7 HDMI computer DOWNLOAD 	HDMI DL[START]
DOWNLOAD block 6/7 1stDSP FIRM DOWNLOAD 	DSP1 DL[START]
DOWNLOAD block 7/7 2ndDSP FIRM DOWNLOAD 	DSP2 DL[START]
To VERSION block	

7. DISASSEMBLY

Note 1: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

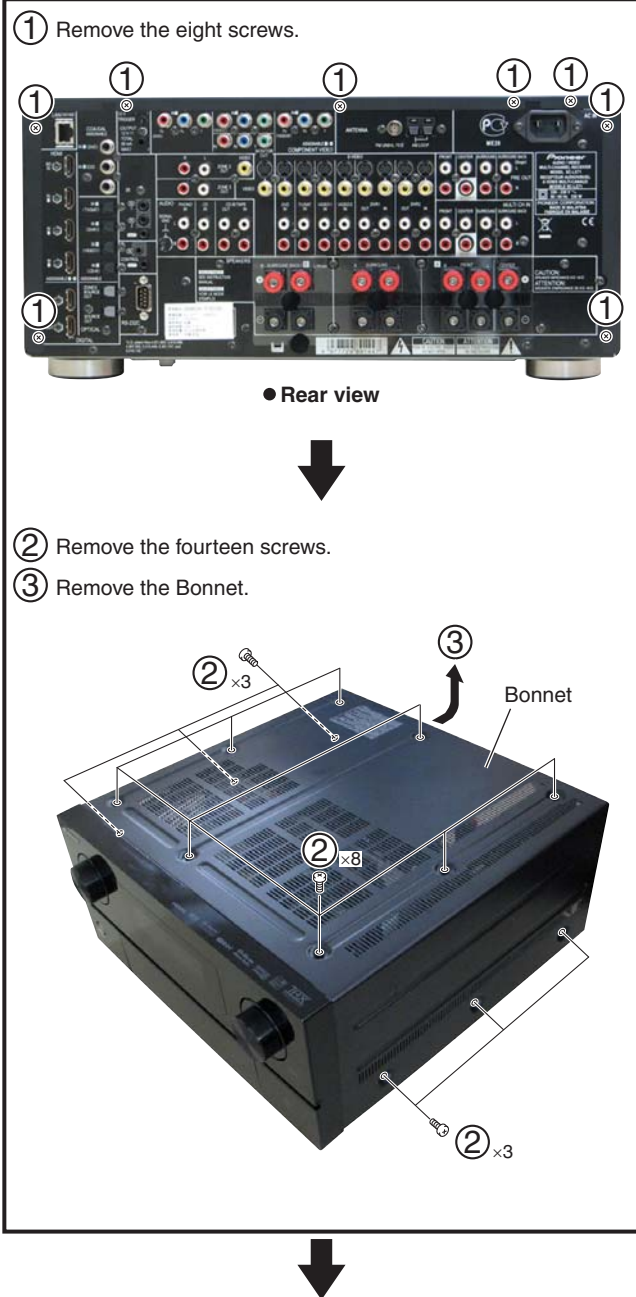
Note 2: For performing the diagnosis shown below, the following jigs for service is required:

- 27P FFC (GGD1588)
- 19P FFC (GGD1589) x2
- 21P FFC (GGD1590)
- 16P FFC (GGD1591)
- 30P+13P board to board extension jig cable (GGD1592)
- 17P+19P board to board extension jig cable (GGD1593)
- 5P PH HOUSING ASSY (GGD1594) x3

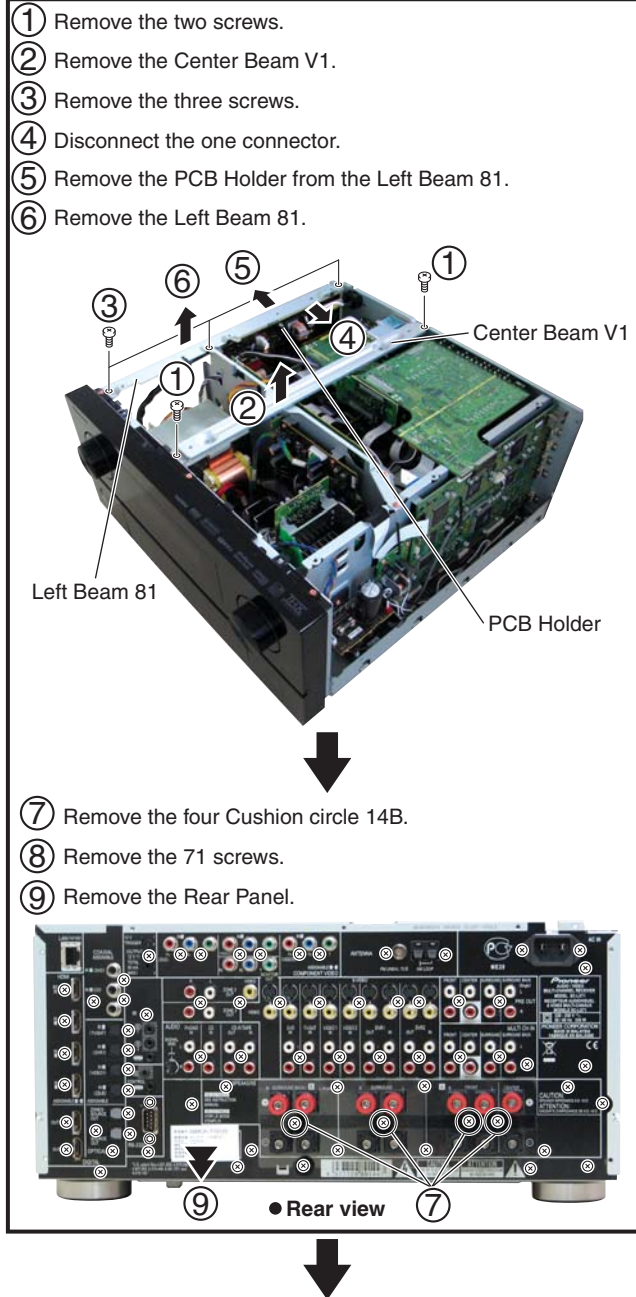
Note 3: Before starting the diagnosis, wait for three minutes until the electricity of the unit is discharged.

1. Disassembly

1 Bonnet



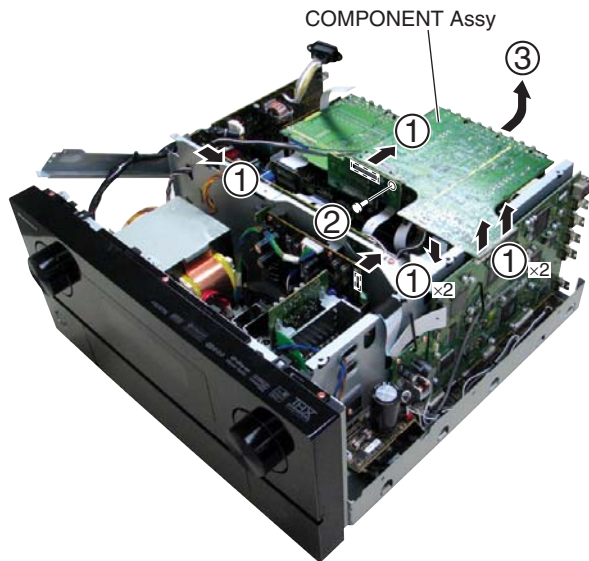
2 Rear Panel



3 PCB Assys and ICE Cover

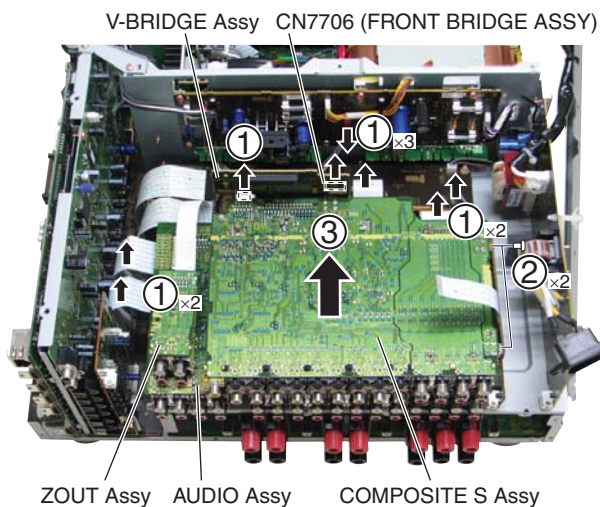
• COMPONENT Assy

- ① Disconnect the one flexible cable and five connectors.
- ② Remove the one Push Rivet.
- ③ Remove the COMPONENT Assy.



• AUDIO Assy, COMPOSITE S Assy, V-BRIDGE Assy and ZOUT Assy

- ① Disconnect the six flexible cables and two connector.
- ② Remove the two Push Rivets.
- ③ Remove the AUDIO Assy, COMPOSITE S Assy, V-BRIDGE Assy and ZOUT Assy.



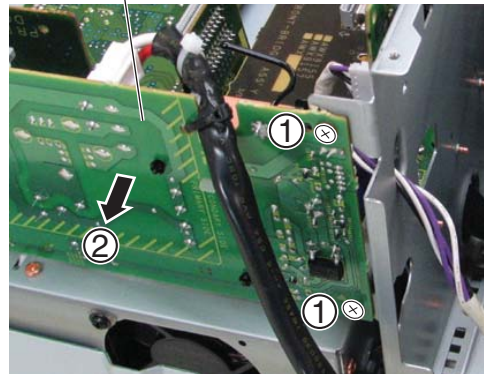
• Rear view



• PRIMARY Assy

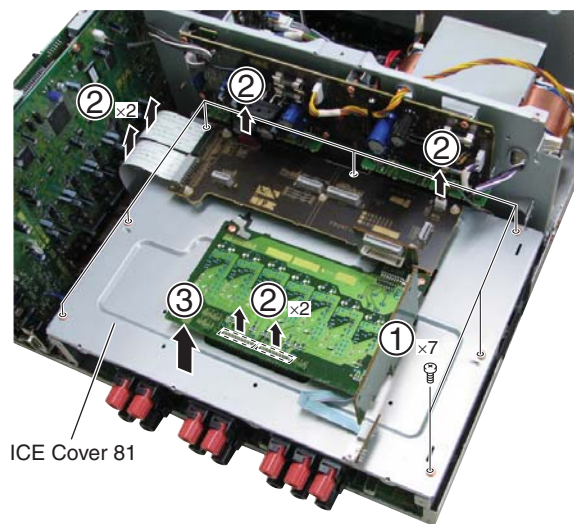
- ① Remove the two screws.
- ② Remove the PRIMARY Assy.

PRIMARY Assy



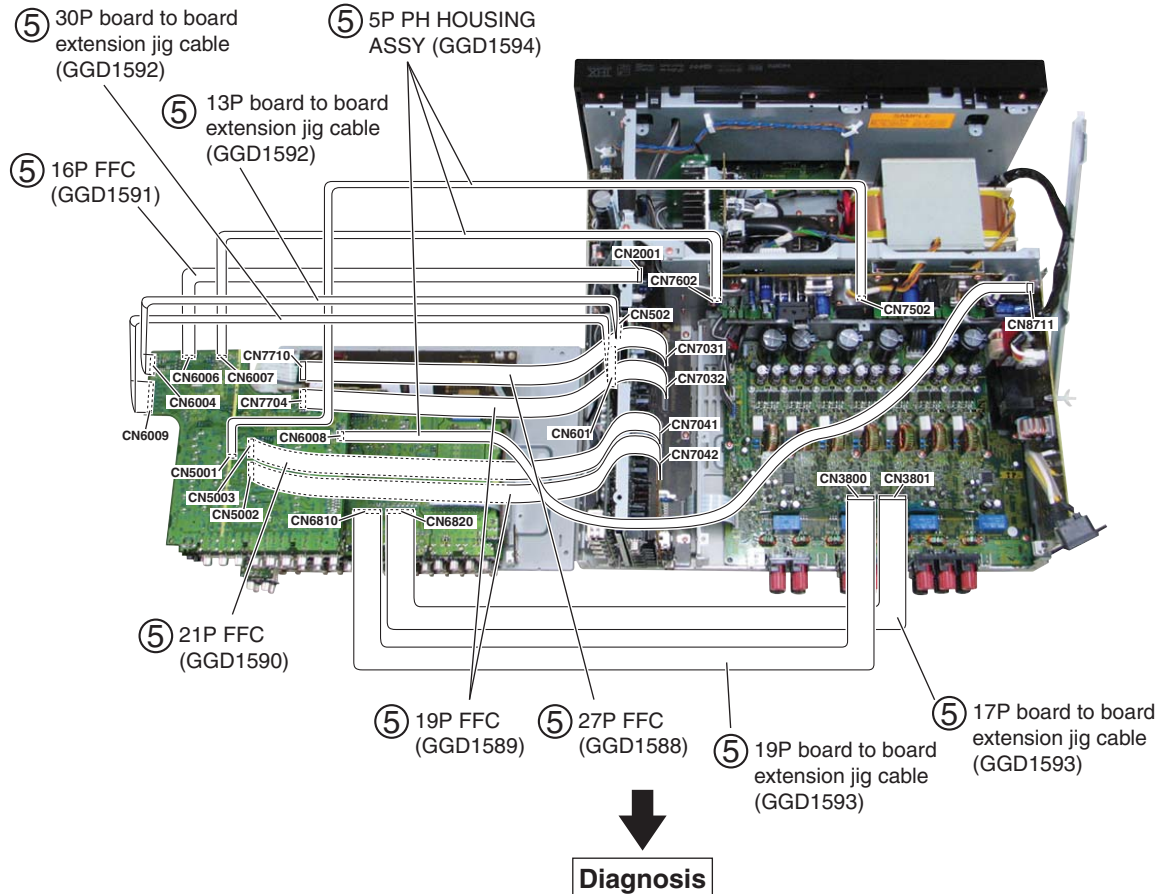
• ICE Cover 81 Section

- ① Remove the seven screws.
- ② Disconnect the two flexible cables and four connectors.
- ③ Remove the ICE Cover 81.

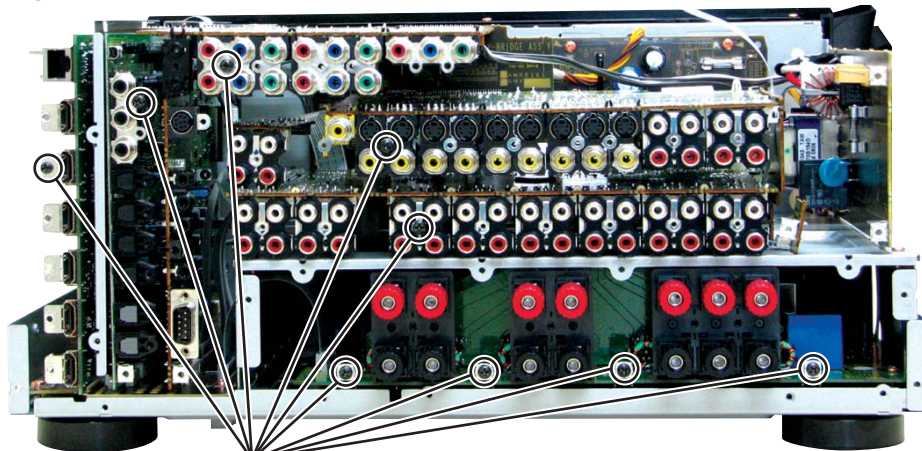


4 Diagnosis

- ① Reassembling the PRIMARY Assy.
- ② Reassembling the AUDIO Assy, COMPOSITE S Assy, V-BRIDGE Assy and ZOUT Assy on the Ice Cover 81.
- ③ Reassembling the COMPONENT Assy on the V-BRIDGE Assy.
- ④ Connect the twelve extension jig cables.
- ⑤ Arrange the unit as shown in the photo below.



Note : As mentioned below, detach the rear panel, re-fasten the screws at the corresponding points, and connect the chassis to the ground.



Points to be connected to the chassis

8. EACH SETTING AND ADJUSTMENT

8.1 HOW TO UPDATE FIRMWARE

[1] MAIN, DSP, HDMI, EVENT and DISP Microcomputer

[Purpose]

Refer to this section when updating the firmware of each microcomputer is required by the service information, etc.

[Necessary Tools]

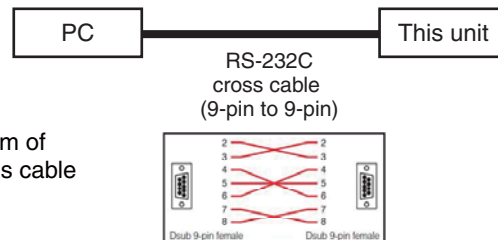
- PC with a serial port
- RS-232C cable (9-pin to 9-pin, cross)
- Firmware ("mot" extension) (**except DISP u-com**)
("sz0" extension) (**for DISP u-com**)
- Program for updating (ufu.exe: ver. 1.08) (**except DISP u-com**)
(ufu.exe: ver. 1.10) (**for DISP u-com**)

[Connections]

Connect as indicated in the figure right:

(MAIN microcomputer)
(EVENT microcomputer)
(HDMI microcomputer)
(DSP microcomputer)
(DISP microcomputer)

Pin-out diagram of
RS-232C cross cable



[Note]

Do NOT disconnect the AC power cords of this unit nor the PC.

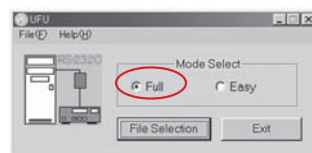
1) HDMI, MAIN, DSP and EVENT microcomputer

[Procedures]

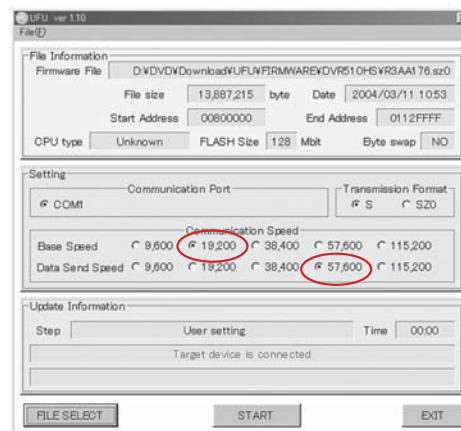
1. Turn off the power to this unit by setting the main volume level to "---dB" and Multi-Zone to "OFF".
2. Connect the 232C cross cable and the PC, as indicated in "Connections".
3. Simultaneously press and hold the ENTER and MULTI-ZONE ON/OFF keys for about 5 seconds.
4. Turn the power ON at CONFIDENTIAL PANEL mode.
5. (MAIN microcomputer)
Press ↓ key and select "MAIN DL [START]" display.
Press ENTER key and set to "MAIN DL [GO ON]".
(EVENT microcomputer)
Press ↓ key and select "EVNT DL [START]" display.
Press ENTER key and set to "EVNT DL [GO ON]".
(DSP microcomputer)
Press ↓ key and select "DSPM DL [START]" display.
Press ENTER key and set to "DSPM DL [GO ON]".
(HDMI microcomputer)
Press ↓ key and select "HDMI DL [START]" display.
Press ENTER key and set to "HDMI DL [GO ON]".
6. Double-click on "ufu.exe: ver.1.08".
7. Check that "Full" is selected in MODE SELECT.
8. Select the firm ware file with "mot" extension.
9. Select the communication speed.
 - Basic speed: 19200
 - Data transfer speed: 57600
10. Click on "START" button.
11. "Completed" is displayed in the "ufu.exe" window.
12. Please retry it from 2 when it doesn't so well.
13. Turn off the unit and end the ufu.exe.

Disconnect the AC power cord of the unit.
and the RS-232C cable.

14. Clear the memories.
 - 1) Connect the AC power cord of the unit
 - 2) Press "SETUP" button and "POWER" button.
 - 3) Then the receiver is turned on and displays "RESET[NO]".
 - 4) Push "→" key and displays "RESET [RESET]"
 - 5) Then push "ENTER" key and displays "RESET? [OK]".
 - 6) Push "ENTER" key and often a while "OK" is displayed.
15. Check the version.
Following the procedures described in
"Version indication" in "6.1 TEST MODE",
check that the version has been changed to a new one.



Check that "Full" is selected in MODE SELECT.



Select the communication speed.

- Basic speed: 19200
- Data transfer speed: 57600

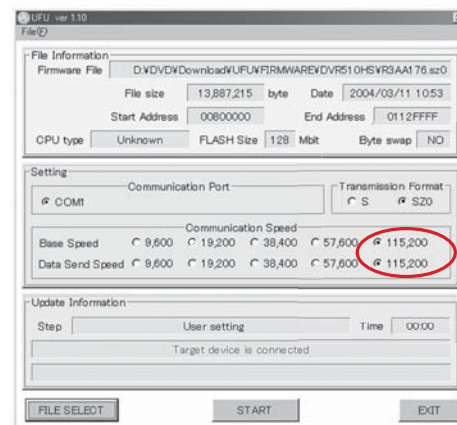
2) DISP microcomputer

[Procedures]

1. Turn off the power to this unit by setting the main volume level to "---dB" and Multi-Zone to "OFF".
2. Connect the 232C cross cable and the PC, as indicated in "Connections".
3. Simultaneously press and hold the ENTER and MULTI-ZONE ON/OFF keys for about 5 seconds.
4. Turn the power ON at CONFIDENTIAL PANEL mode.
5. (DISP microcomputer)
Press ↓ key and select "DISP DL [START]" display.
Press ENTER key and set to "DISP DL [GO ON]".
6. Double-click on "ufu.exe: ver.1.10".
7. Check that "Full" is selected in MODE SELECT.
8. Select the firm ware file with "sz0" extension.
9. Select the communication speed.
 - Basic speed: 115200
 - Data transfer speed: 115200
10. Click on "START" button.
11. "Completed" is displayed in the "ufu.exe" window.
12. Please retry it from 2 when it doesn't so well.
13. Turn off the unit and end the ufu.exe.
Disconnect the AC power cord of the unit.
and the RS-232C cable.
14. Clear the memories.
 - 1) Connect the AC power cord of the unit
 - 2) Press "SETUP" button and "POWER" button.
 - 3) Then the receiver is turned on and displays "RESET [NO]".
 - 4) Push "→" key and displays "RESET [RESET]".
 - 5) Then push "ENTER" key and displays "RESET? [OK]".
 - 6) Push "ENTER" key and often a while "OK" is displayed.
15. Check the version.
Following the procedures described in "Version indication" in "6.1 TEST MODE",
check that the version has been changed to a new one.



Check that "Full" is selected in MODE SELECT.



Select the communication speed.

- Basic speed: 115200
- Data transfer speed: 115200

[2] DSP Flash Rom Update by USB Memory

[Preparations]

1. Copy the DSP Firmware for update to the USB MEMORY in advance.
 - * One file for DSP1 and DSP2
 - * Unable to update by the program except for 08 Mid receiver.
2. Connect the MONITOR OUT of this unit to DISPLAY.
3. Turn off the power to this unit by setting the main volume level to "---dB" and Multi-Zone to "OFF".
4. Connect the USB MEMORY to the iPod DIRECT USB terminal of this unit.

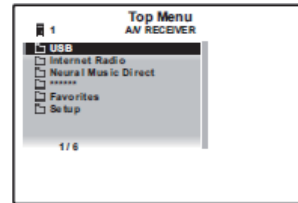
[Procedure]

1. Simultaneously press and hold POWER and RETURN keys for about 5 seconds.
2. The DSP firmware version is displayed automatically.
Confirm the Version before the update.
"f [*.***] s [*.***]" is displayed on the FL display. **(A)**
f: DSP1 firmware
s: DSP2 firmware
3. Select the "USB" on the monitor TV. **(B)**
4. Select the file for Firmware update. **(C)**
5. The updating program starts and the HDMI indicator becomes flashing. **(D)**
6. After about 2 minutes, the HDMI indicator stops flashing and the update is finished.
Confirm "DSPFL DL [OK]" is displayed on the FL display. **(E)**
7. Turn off the unit and disconnect the USB MEMORY.

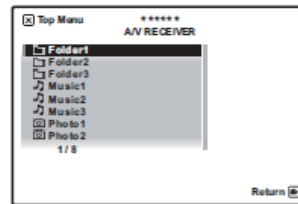
(A)



(B)



(C)



(D)



(E)



[Confirmation]

1. Simultaneously press and hold POWER and RETURN keys for about 5 seconds.
2. The DSP firmware version is displayed automatically.
Confirm the Version after the update. **(F)**

(F)



[3] Network Firmware Update Procedure

Note: Please prepare the firmware file in your PC before starting this procedure.

[Procedure]

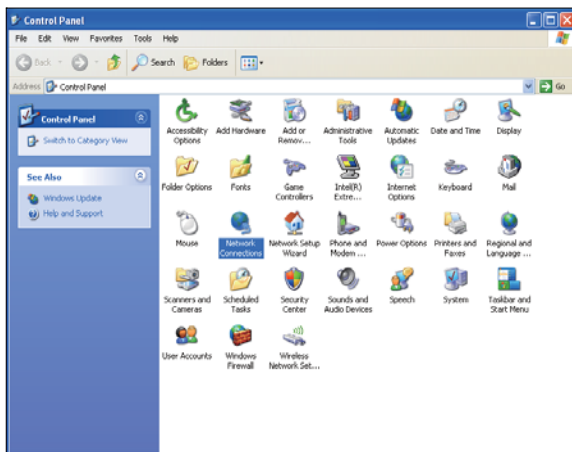
1. Connect the LAN terminal on the AV receiver to the LAN terminal on PC with a LAN cable (cross or straight).
2. Set the Static IP Address of the PC.

*When using the DHCP router, go to Step 3.

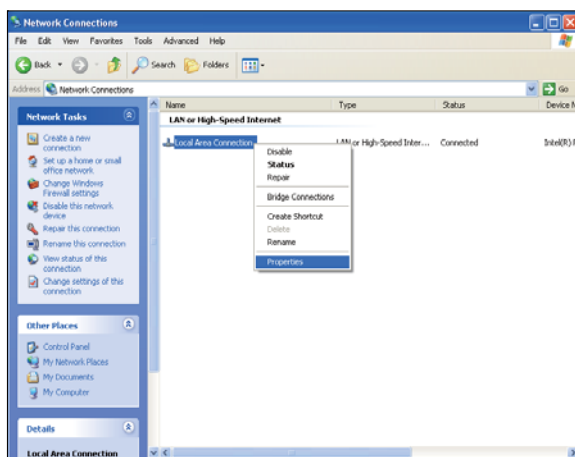
It is not necessary to execute this Step 2 in that case.

Open the Control Panel. --->

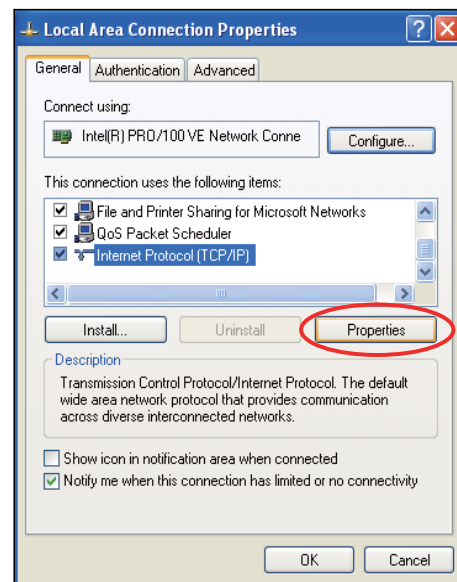
Open the Network Connections (double click).



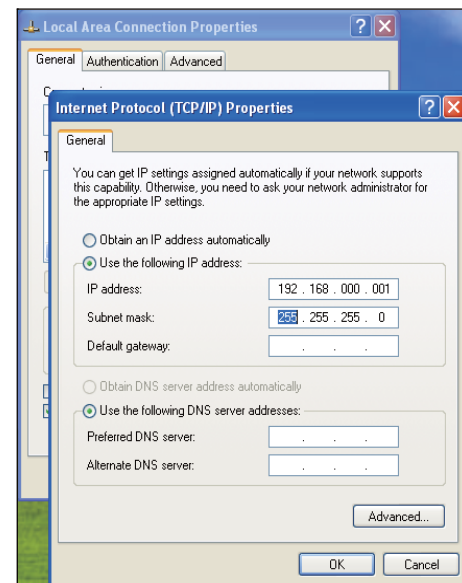
Local Area Connection (right click) ---> Properties



Local Area Connections Properties --->
Internet Protocol (TCP/IP) ---> Properties



Internet Protocol (TCP/IP) Properties



Set the following settings.

Use the following IP address:

IP address: 192.168.000.001

Subnet mask: 255.255.255.0

3. Set the Static IP Address of the AV receiver.

Note: Please confirm the Network IP settings of the customer's unit before changing the IP Address.
Home Media Gallery ---> Setup ---> NetworkSetup ---> NetworkFound ---> Static IP Address
If using the Static IP Address, please record it.

Home Media Gallery ---> Setup ---> NetworkSetup ---> NetworkFound ---> Static IP Address Change

Set the following settings.

IP address: 192.168.000.002

Subnet mask: 255.255.255.0

Gateway IP: 192.168.000.001

Proxy Server: No

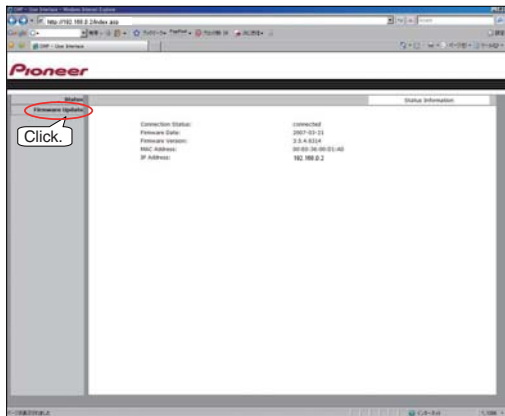
4. Open the Internet Explorer on the PC.

Enter the following address.

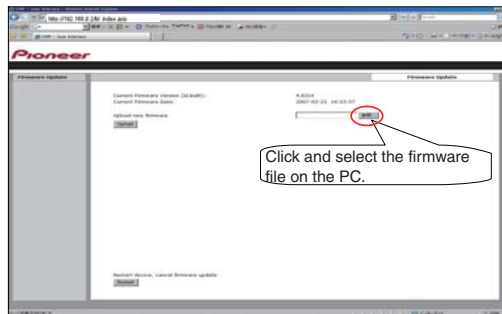
http:// 192.168.000.002

The following page will be appeared.

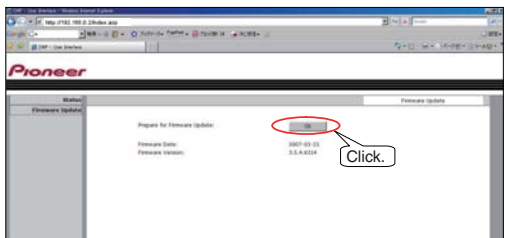
Click the Firmware Update.



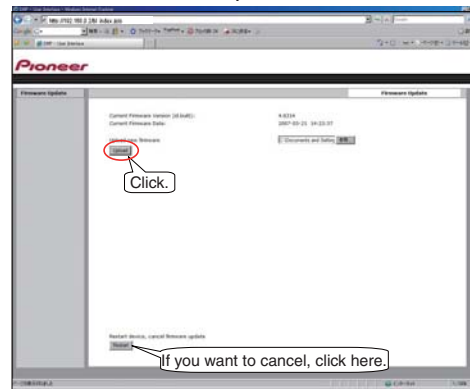
Click the browse button and select the firmware file in the PC.



Click the Ok button.

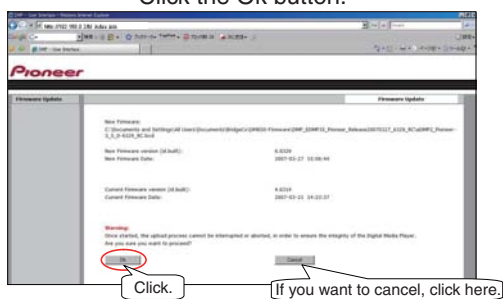


Click the Upload button.

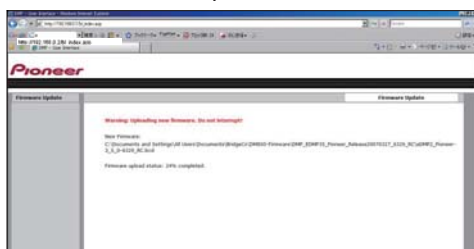




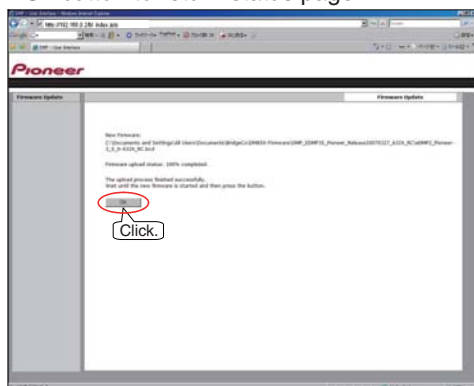
Click the Ok button.



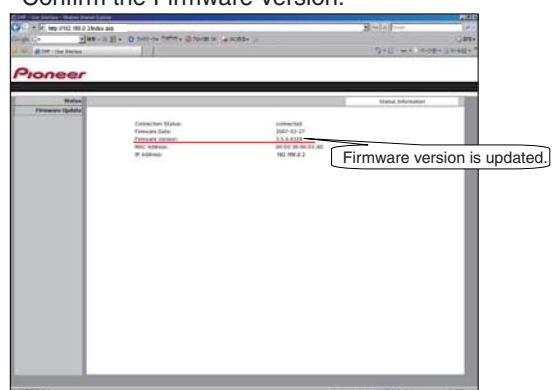
The firmware update will be started.



After the updating is completed, click the Ok button to return status page.



Confirm the Firmware Version.

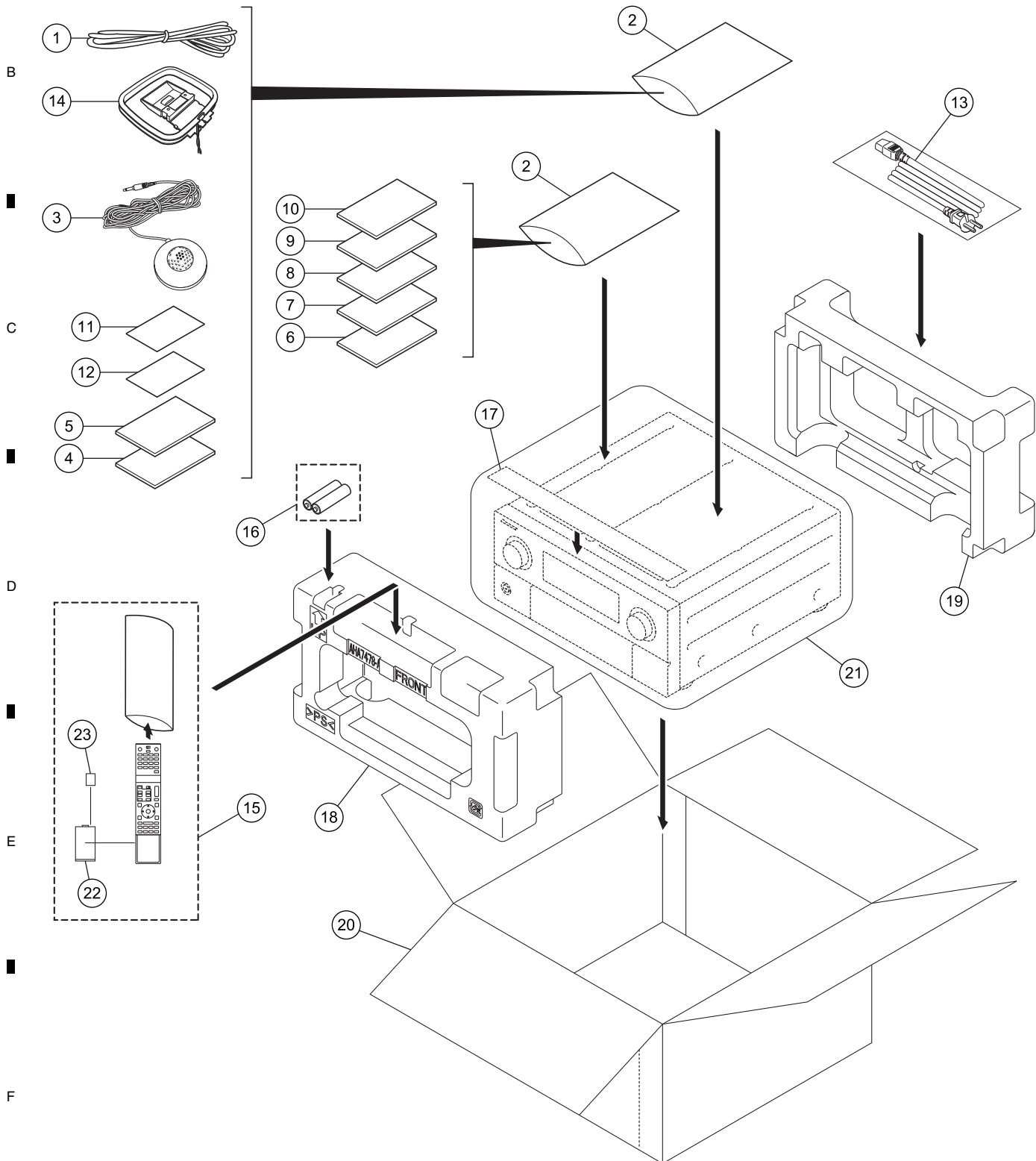


Note: Please restore the Network IP settings of the customer's unit after the update is completed.

9. EXPLODED VIEWS AND PARTS LIST

- NOTES:
- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - Screws adjacent to ▼ mark on product are used for disassembly.
 - For the applying amount of lubricants or glue, follow the instructions in this manual.
(In the case of no amount instructions, apply as you think it appropriate.)

9.1 PACKING SECTION



A

B

C

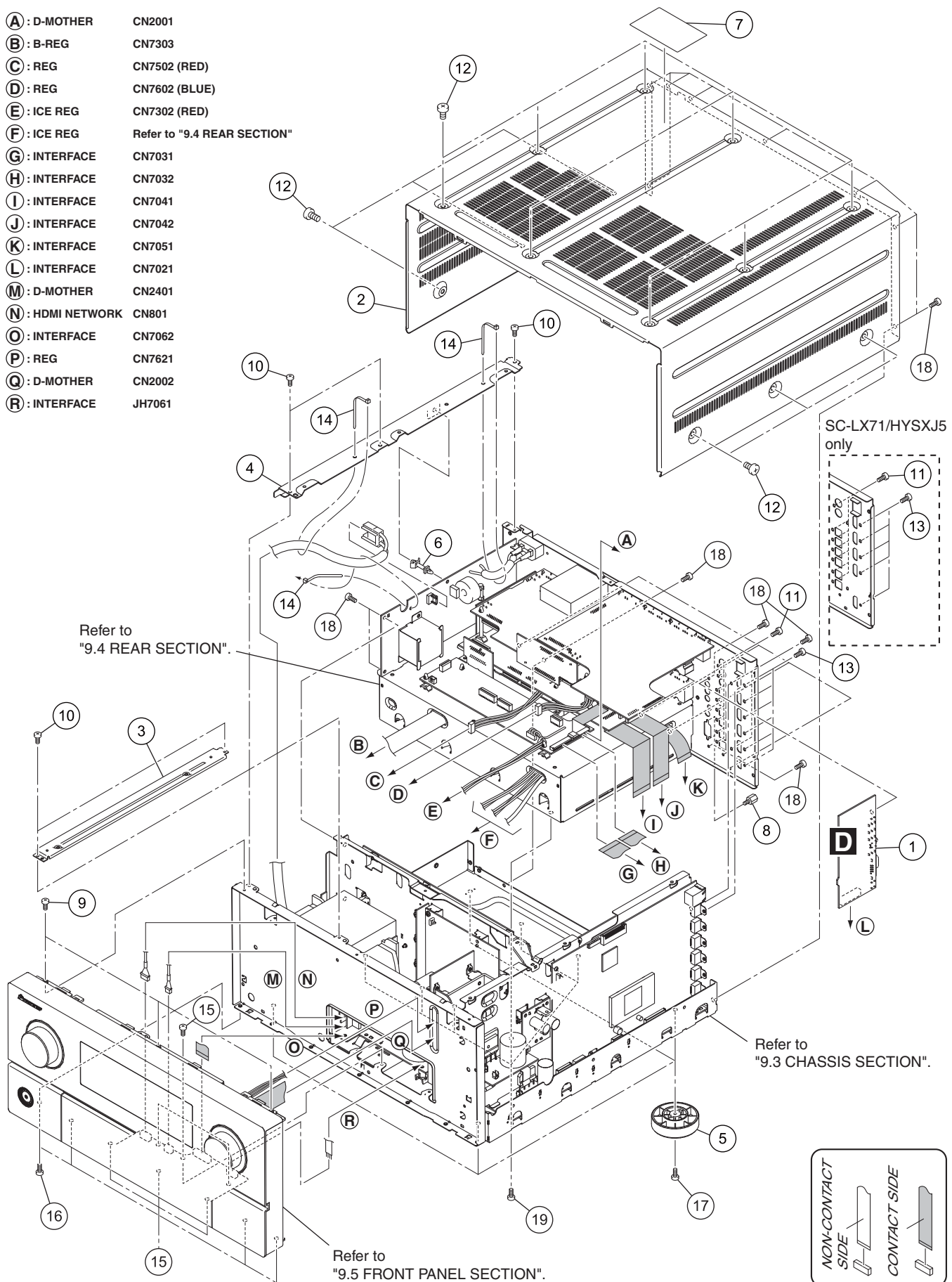
D

5

F

9.2 EXTERIOR SECTION

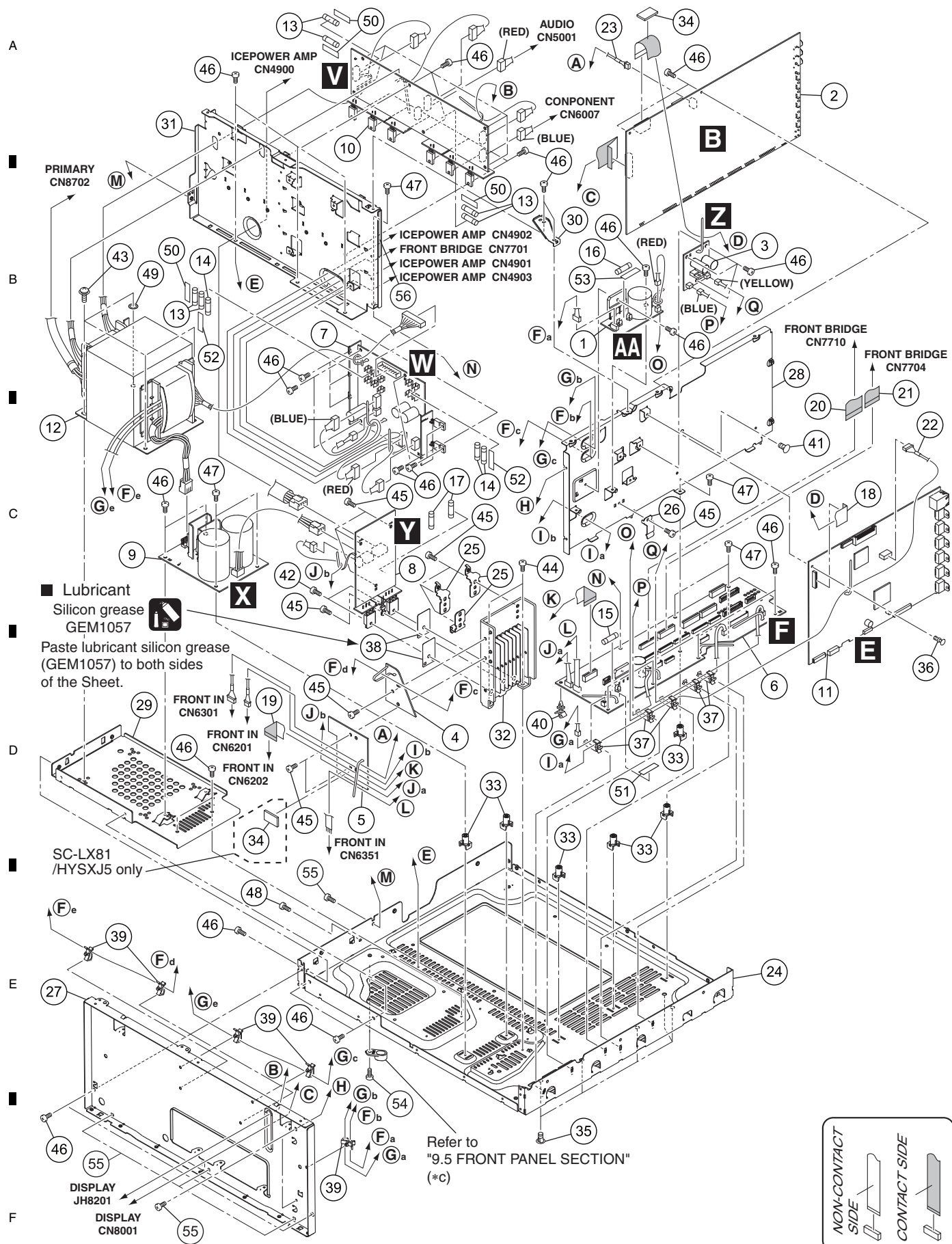
(A) : D-MOTHER	CN2001
(B) : B-REG	CN7303
(C) : REG	CN7502 (RED)
(D) : REG	CN7602 (BLUE)
(E) : ICE REG	CN7302 (RED)
(F) : ICE REG	Refer to "9.4 REAR SECTION"
(G) : INTERFACE	CN7031
(H) : INTERFACE	CN7032
(I) : INTERFACE	CN7041
(J) : INTERFACE	CN7042
(K) : INTERFACE	CN7051
(L) : INTERFACE	CN7021
(M) : D-MOTHER	CN2401
(N) : HDMI NETWORK	CN801
(O) : INTERFACE	CN7062
(P) : REG	CN7621
(Q) : D-MOTHER	CN2002
(R) : INTERFACE	JH7061



EXTERIOR SECTION SECTION PARTS LIST

Mark	No.	Description	Part No.	
	1	232C & CONTROL ASSY	AWX9209	
	2	Bonnet 81B	AZN8036	A
	3	Center Beam V1	ANG7482	
	4	Left Beam 81	ANG7624	
	5	Insulator Assembly	DXA1904	
	6	PCB Holder	PNW2562	
	7	Lisence Label V5S	ARW7372	■
	8	Screw 2.85 x 7	ABA7078	
	9	Screw	BBT30P080FCC	
	10	Screw	BBZ30P080FCC	
	11	Screw	BBZ30P080FTB	B
	12	Screw	BCZ40P060FTB	
	13	Screw	BMZ30P040FTB	
NSP	14	Binder (BK-1)	ZCA-BK1	
	15	Screw	BBZ30P060FCC	
	16	Screw	ABA1193	■
	17	Screw	ABZ30P080FTC	
	18	Screw	ABA1011	
	19	Screw	IBZ30P080FCC	
				C
				■
				D
				■
				E
				■
				F

9.3 CHASSIS SECTION



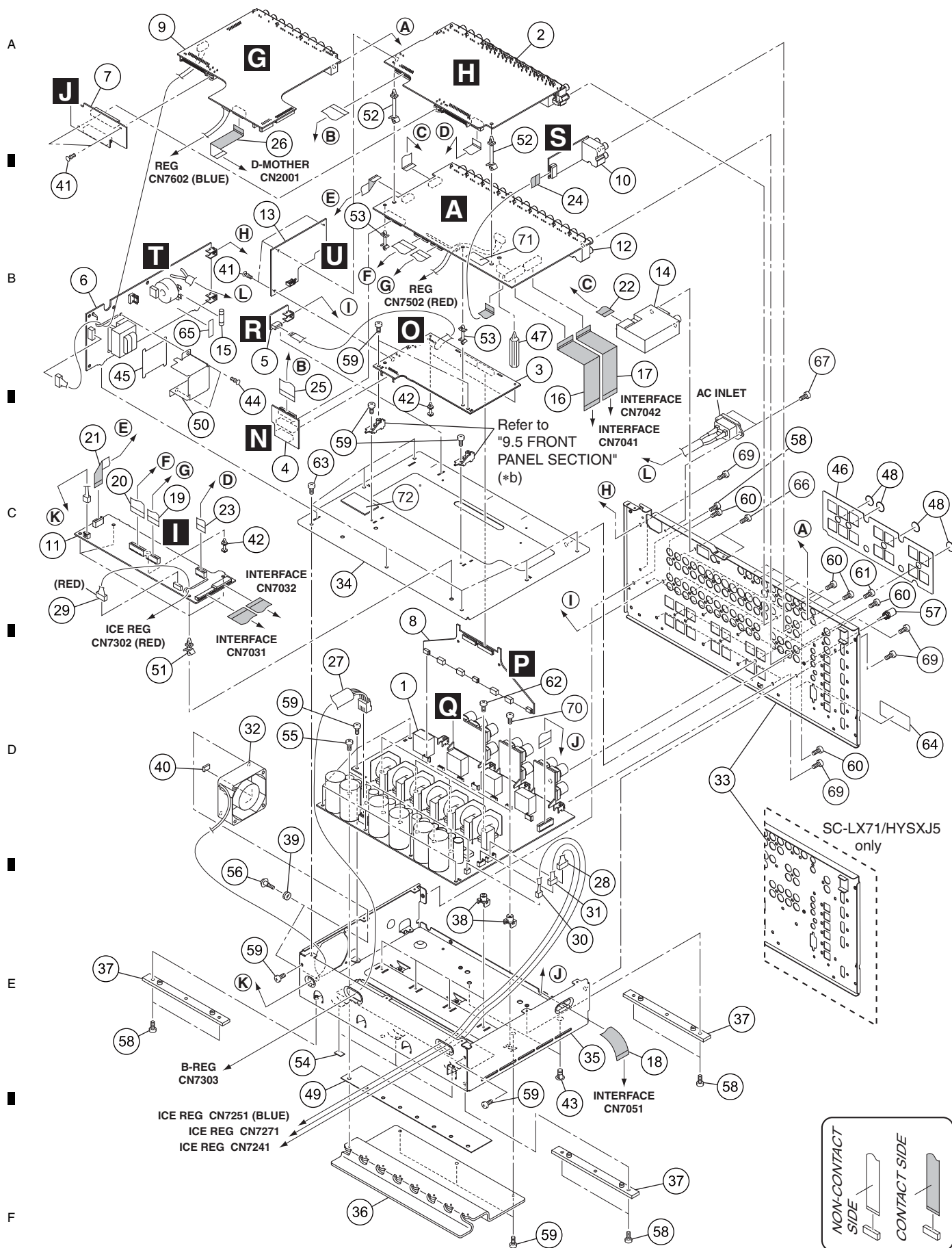
EXTERIOR SECTION SECTION PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.	
⚠	1	HDMI RECT ASSY	AWX9156	29	Trans Flame 81		ANG7623	
	2	D-MOTHER ASSY	See Contrast table (2)					A
	3	DCDC ASSY	AWX9138	30	Support Plate 81		ANG7625	
	4	H GUARD2 ASSY	AWX9147	31	REG Assy Plate 81		ANG7627	
	5	H GUARD1 ASSY	AWX9174	32	REG Heatsink 81		ANH7204	
				33	PCB Mold		AMR2533	
	6	INTERFACE ASSY	AWX9148	34	FFC Cushion		AEB7404	
	7	ICE REG ASSY	AWX9149					
	8	B REG ASSY	AWX9150	35	PCB Holder		AEC7057	
	9	B DIODE ASSY	AWX9171	36	Push Rivet		AEC7071	
	10	REG ASSY	AWX9152	37	Reuse Clamp		AEC7621	
				38	Sheet		AEE7034	
	11	HDMI NETWORK ASSY	See Contrast table (2)	39	Side Clamp		DEC2007	B
⚠	12	Power Transformer (T1501)	ATS7423					
⚠	13	Fuse	REK1021	40	Locking Card Spacer		PNW2917	
		(FU13,FU14,FU21,FU22,FU31,FU32: 800mA)		NSP 41	PC Support		VEC1749	
⚠	14	Fuse	REK1022	42	Screw		ABA1052	
		(FU11,FU12,FU15: 1A)		43	Screw 4 x 12		ABA7109	
				44	Screw 3 x 10		ABA7134	
⚠	15	Fuse (FU51: 1.6A)	REK1024					
⚠	16	Fuse (FU41: 3.15A)	REK1027	45	Screw		BBZ30P060FTC	
⚠	17	Fuse (FU61,FU62: 10A)	REK1154	46	Screw		BBZ30P080FCC	
	18	22FFC/60V (J10)	ADD7655	47	Screw		BBZ30P180FCC	
	19	15FFC/60V (J13)	ADD7660	48	Screw		IBP30P090FCC	C
				49	Washer		WH40FNI	
	20	27P FFC/60V (J15)	ADD7662					
	21	19P FFC/60V (J16)	ADD7663	NSP 50	Fuse Card		AAX2367	
	22	5P Shielded Cable (J19)	ADX7621	NSP 51	Fuse Card		AAX2377	
	23	Housing Assy (Y21)	ADX7623	NSP 52	Fuse Card		AAX7293	
NSP 24	Under Base 81		ANA7210	NSP 53	Fuse Card		AAX7493	
				54	Screw		ABZ30P080FTC	
	25	PCB Angle 45	ANG7406					
NSP 26	Transistor Holder		ANG7543	55	Screw		ABA1011	
NSP 27	Panel Stay 81		ANG7642	56	ACETATE TAPE 10X60		AEH7029	D
	28	DSP Shieled 81	ANG7622					

(2) CONTRAST TABLE
 SC-LX81/HYSXJ5 and SC-LX71/HYSXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	Mark	No.
	2	D-MOTHER ASSY	AWX9196	AWX9202
	11	HDMI NETWORK ASSY	AWX9234	AWX9235

9.4 REAR PANEL SECTION



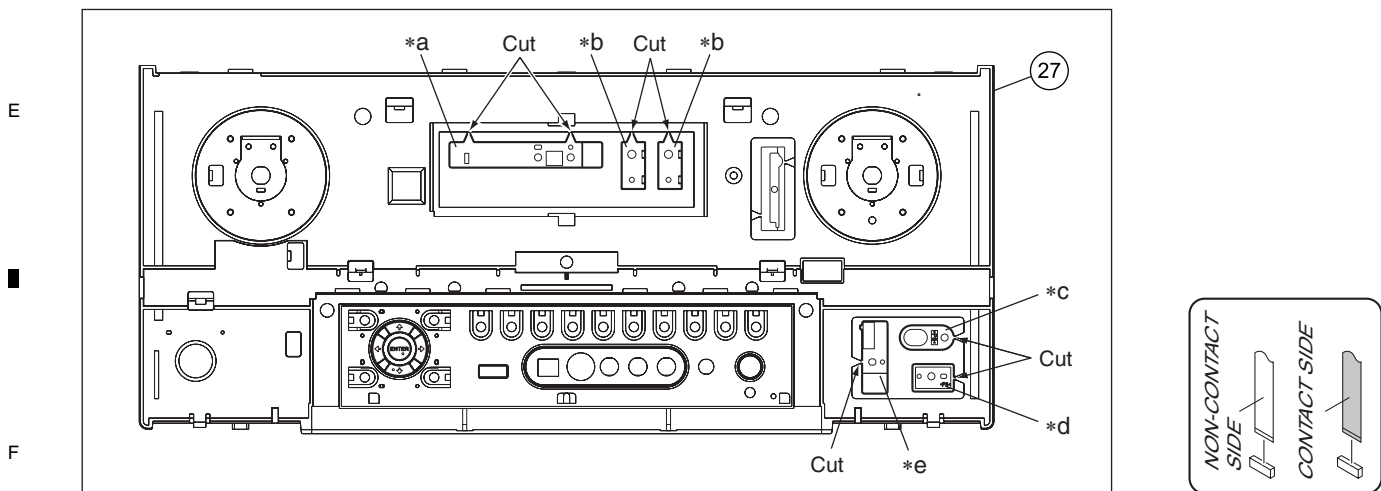
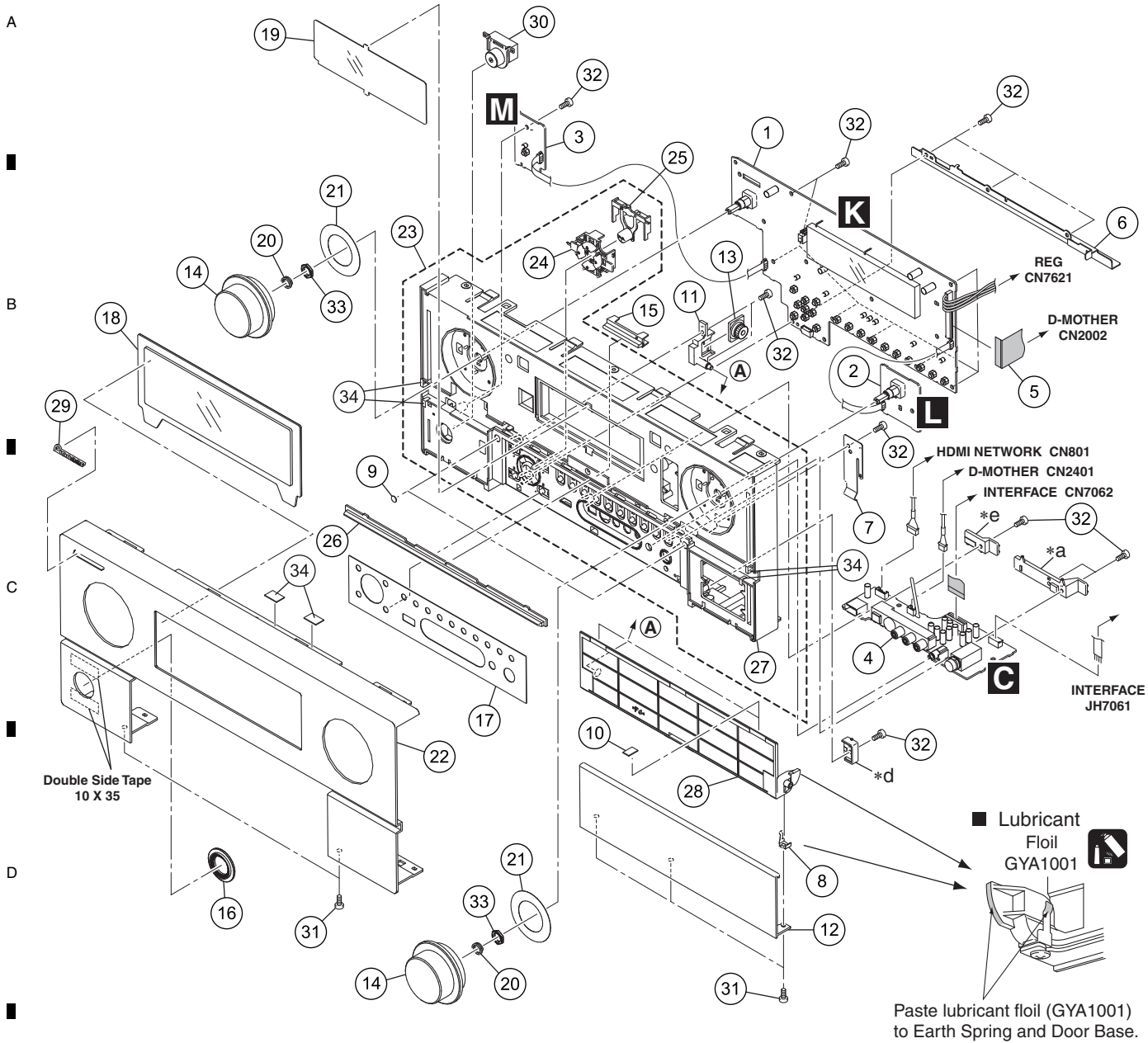
EXTERIOR SECTION SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	ICEPOWER AMP Assy	AWH7017	38	PCB Mold	AMR7536
2	COMPOSITE S ASSY	AWX9144	39	Damper Bushing	AEB7396
3	ICE BUFFER ASSY	AWX9145	40	Cushion 5 x 8	AEB7397
4	PRE BRIDGE ASSY	AWX9146			
5	ICE SHIELD ASSY	AWX9173	41	Push Rivet	AEC7071
			42	PCB Spacer	AEC7080
⚠ 6	PRIMARY ASSY	AWX9166	43	Card Spacer	AEC7133
7	V-BRIDGE ASSY	AWX9161	44	Nylon Rivet	AEC7406
8	ICE INTERFACE ASSY	AWX9137	45	Primary Barrier	AEC7569
9	COMPONENT ASSY	See Contrast table (2)			
10	ZOUT ASSY	AWX9143	46	SP Sheet 81	AEC7599
			47	Card Spacer 18K	AEC7613
11	FRONT BRIDGE ASSY	AWX9155	48	Cushion Circle 14B	AED7081
12	AUDIO ASSY	AWX9206	49	Radiation Sheet A	AEE7064
13	PRIMARY GUARD ASSY	AWX9172	50	Shield Case	AMR7526
14	FM/AM TUNER UNIT	AXX7248			
⚠ 15	FUSE (FU1: 5A)	REK1029	NSP 51	PCB Holder	PNW2100
			NSP 52	Spacer 40	PNW2488
16	21P FFC/60V (J2)	ADD7645	NSP 53	PCB Holder	REC1220
17	19P FFC/60V (J3)	ADD7646	54	Cushion 11 x 7	AED7092
18	17P FFC/60V (J4)	ADD7647	55	Screw 3 x 10	ABA7134
19	13P FFC/60V (J5)	ADD7648			
20	17P FFC/60V (J6)	ADD7649	56	Screw	ABA7146
			57	Terminal Screw	AKE-031-0
21	9P FFC/60V (J7)	ADD7650	58	Screw	BBZ30P060FCC
22	11P FFC/60V (J8)	ADD7651	59	Screw	BBZ30P080FCC
23	9P FFC/60V (J9)	ADD7652	60	Screw	BBZ30P080FTB
24	11FFC/60V (J11)	ADD7658			
25	19FFC/60V (J12)	ADD7659	61	Screw	BBZ30P100FCC
			62	Screw	BBZ30P140FCC
26	16FFC/60V (J14)	ADD7661	63	Screw	AMZ30P060FTC
27	4P Housing Assy (Y20)	ADX7622	NSP 64	Label	VRW1629
28	6P Housing Assy (Y22)	ADX7655	NSP 65	Fuse Card	AAX7098
29	6P Housing Assy (Y23)	ADX7656			
30	2P Housing Assy (Y24)	ADX7657	66	Screw	ABA1207
			67	Screw	CBZ30P080FTB
31	4P Housing Assy (Y25)	ADX7677	68	•••••	
⚠ 32	DC Fan Motor	AXM7040	69	Screw	ABA1011
33	Rear Panel	See Contrast table (2)	70	Screw	IBZ30P150FCC
NSP 34	ICE COVER 81	ANF7047			
NSP 35	ICE BOX 81	ANF7052	71	ACETATE TAPE 10X35	AEH7032
			72	CUSHION T3 20X35	AEB7406
NSP 36	Heatsink 81	ANH7202			
37	Insulator ICE	AMR7523			

(2) CONTRAST TABLE
 SC-LX81/HYSXJ5 and SC-LX71/HYSXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	Mark	No.
	9	COMPONENT ASSY	AWX9141	AWX9211
	33	Rear Panel	ANC8526	ANC8533

9.5 FRONT PANEL SECTION



EXTERIOR SECTION SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	DISPLAY ASSY	See Contrast table (2)	19	Filter 81HY	AAK8459
2	VOL ASSY	AWX9159	20	Vol Ring 60	ABH7249
3	POWER SW ASSY	AWX9160			
4	FRONT IN ASSY	AWX9142	21	Knob Spacer 74	AEC7558
5	29FFC/60V (J18)	ADD7665	22	Front Panel	See Contrast table (2)
			23	P Base 81HY Assy	AZN8038
6	Panel Beam 81	ANG7620	NSP 24	+-Button 81	AAD7788
7	Door Spring	ABK7061	NSP 25	Enter Button 81	AAD7789
8	Earth Spring 81	ABK7067			
9	Cushion Circle 6B	AED7083	26	Center Lens V5SH	AAK8428
10	Cushion 11 x 7	AED7092	NSP 27	Panel Base 81HY	AMB7988
			28	Door Base 81	AMR7540
11	Door Shaft 60	AMR7531	29	Pioneer Badge	VAM1158
12	Door Panel 81HY	ANB7490	30	STANDBY BTN LXHY Assy	AAD7773
13	Damper Assy	AXA7156			
14	Vol.Knob B	AAA7052	31	Screw	BBZ30P080FTB
15	IB Lens V5SEL	AAK8430	32	Screw	BBZ30P100FNI
			33	Nut	NK90FTC
16	Power Ring LX	AAK8427	NSP 34	TAPE	PNM1249
17	Door Sheet 81HY	AAK8439			
18	Display Panel 81HY	AAK8442			

(2) CONTRAST TABLE

SC-LX81/HYSXJ5 and SC-LX71/HYSXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	Mark	No.
	1	DISPLAY ASSY	AWX9158	AWX9238
	22	Front Panel	ANB7483	ANB7487

10. SCHEMATIC DIAGRAM

10.1 AUDIO ASSY

A

C5001~C5002	AMS9201-1/2
C5003~C5004	COBRC020205
C5005~C5006	COBRC030205
C5007~C5010	COBRC050205
C5011~C5014	9418A

JA5001

KXB3017-A

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C5011~C5014	C5001~C5004	C5005~C5008	AMS9201-1/2
C5015~C5018	C5009~C5012	C5013~C5016	COBRC010205
C5019~C5022	C5017~C5020	C5021~C5024	COBRC020205
C5025~C5028	C5023~C5026	C5027~C5030	COBRC030205

C5031~C5034	C5031~C5034	C5035~C5038	COBRC020205
C5039~C5042	C5039~C5042	C5043~C5046	COBRC030205

C5041~C5044	C5041~C5044	C5045~C5048	COBRC020205
C5049~C5052	C5049~C5052	C5053~C5056	COBRC030205

C5051~C5054	C5051~C5054	C5055~C5058	COBRC020205
C5059~C5062	C5059~C5062	C5063~C5066	COBRC030205

A AUDIO ASSY
(AWX9206)



△

**F** CN7003

4

B 1/4 D-MOTHER ASSY
(SC-LX81 : AWX9196)
(SC-LX71 : AWX9202)

F



97

10.3 D-MOTHER ASSY (2/4)

A

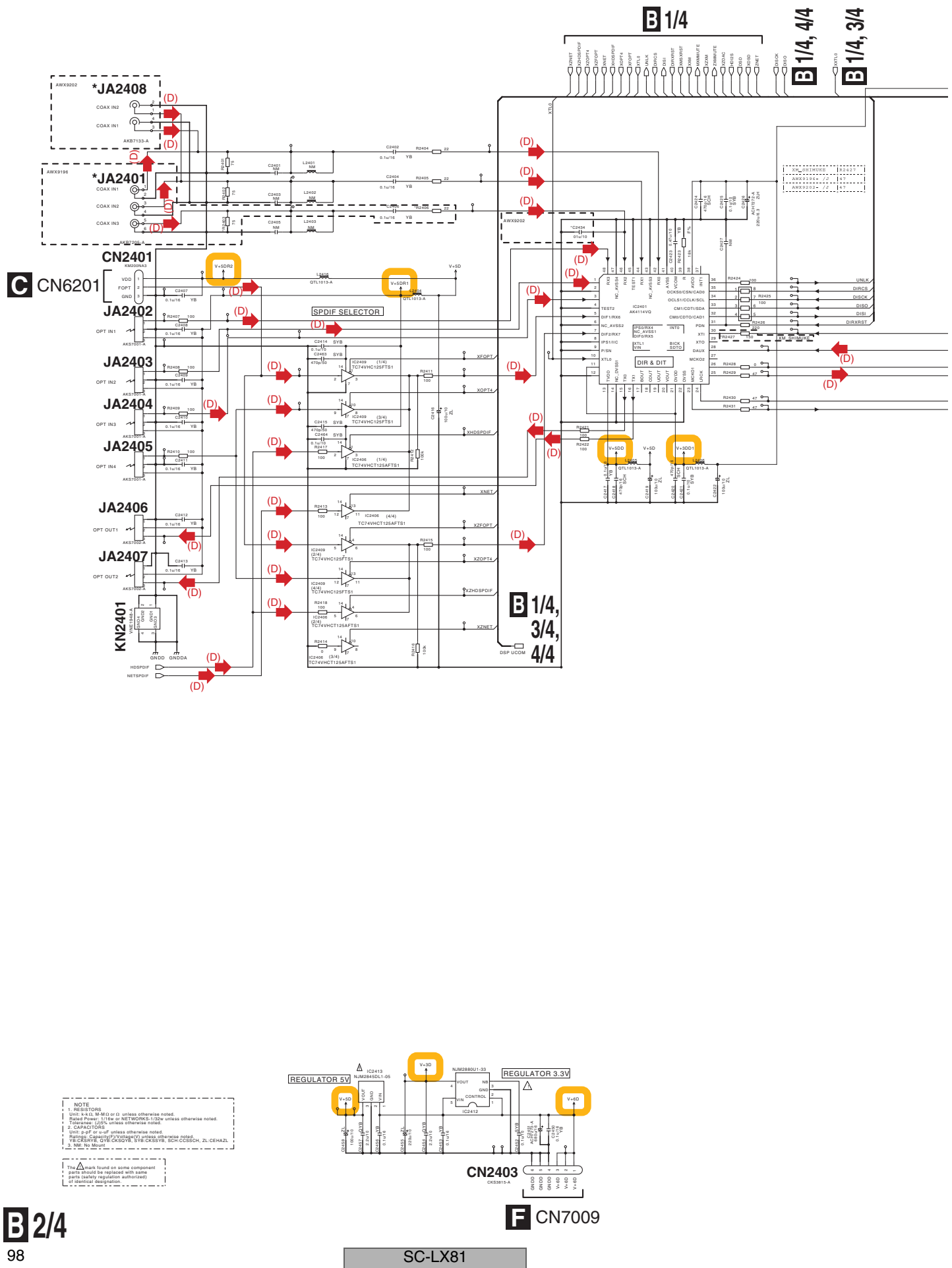
B

C

D

E

F



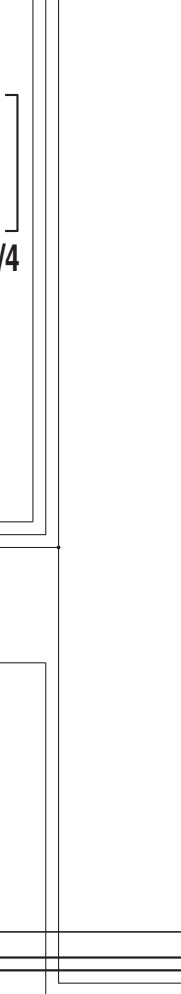
A



F

99

△



A



C

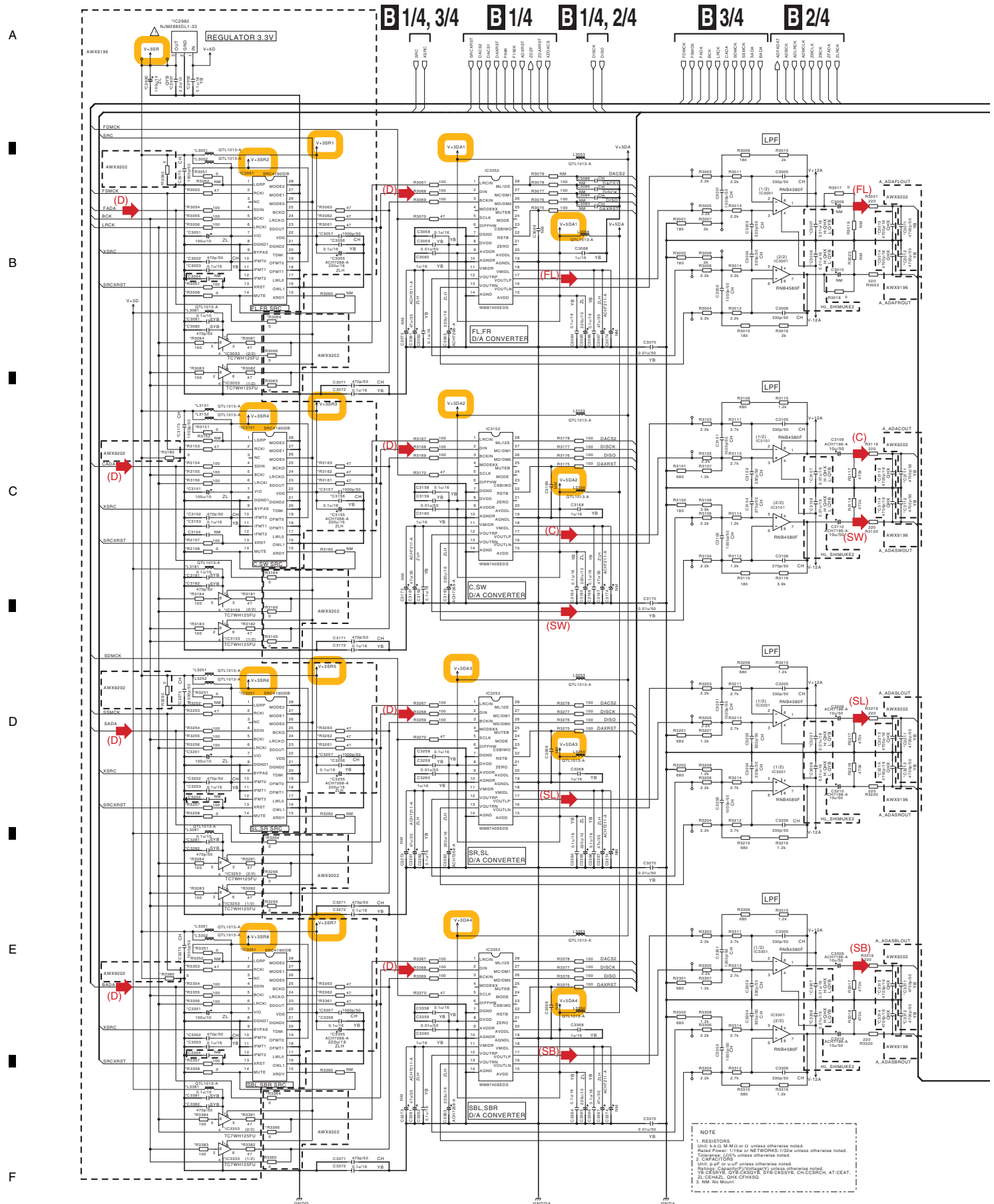
D

E

F

101

10.5 D-MOTHER ASSY (4/4)



B 4/4 D-MOTHER ASSY **(SC-LX81 : AWX9196)** **(SC-LX71 : AWX9202)**

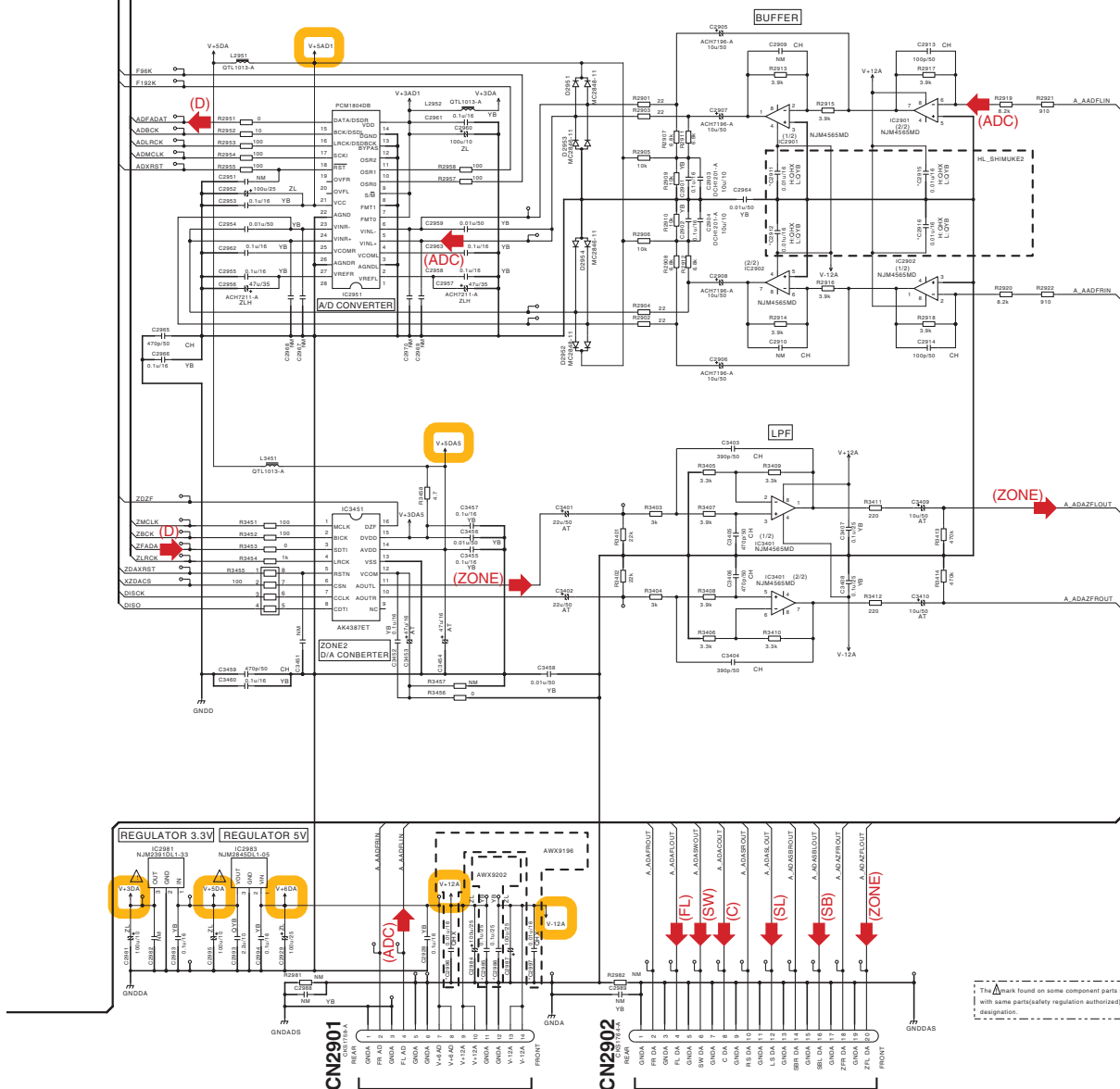
B 2/4, 3/4

 □ DAC/ADC
 □ DSP UCODE

B 1/4, 2/4, 3/4

IC	Q1913	Q1914	Q1915	Q1916	Q1917	Q1918
AWX9196	0.01u/50 QDS	0.01u/50 QDS	0.01u/50 QDS	0.01u/50 QDS	0.01u/50 QDS	0.01u/50 QDS
AWX9202	0.01u/50 QDS	0.01u/50 QDS	0.01u/50 QDS	0.01u/50 QDS	0.01u/50 QDS	0.01u/50 QDS

- (D) : Audio Data Route
 (ZONE) : Audio Signal Route (Zone L ch)
 (ADC) : Audio Signal Route (ADC L ch)
 (FL) : Audio Signal Route (Front L ch)
 (SL) : Audio Signal Route (Surround L ch)
 (C) : Audio Signal Route (Center)
 (SB) : Audio Signal Route (Surround Back L ch)
 (SW) : Audio Signal Route (Subwoofer)



* The mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

F CN7007
F CN7006

SC-LX81

B 4/4

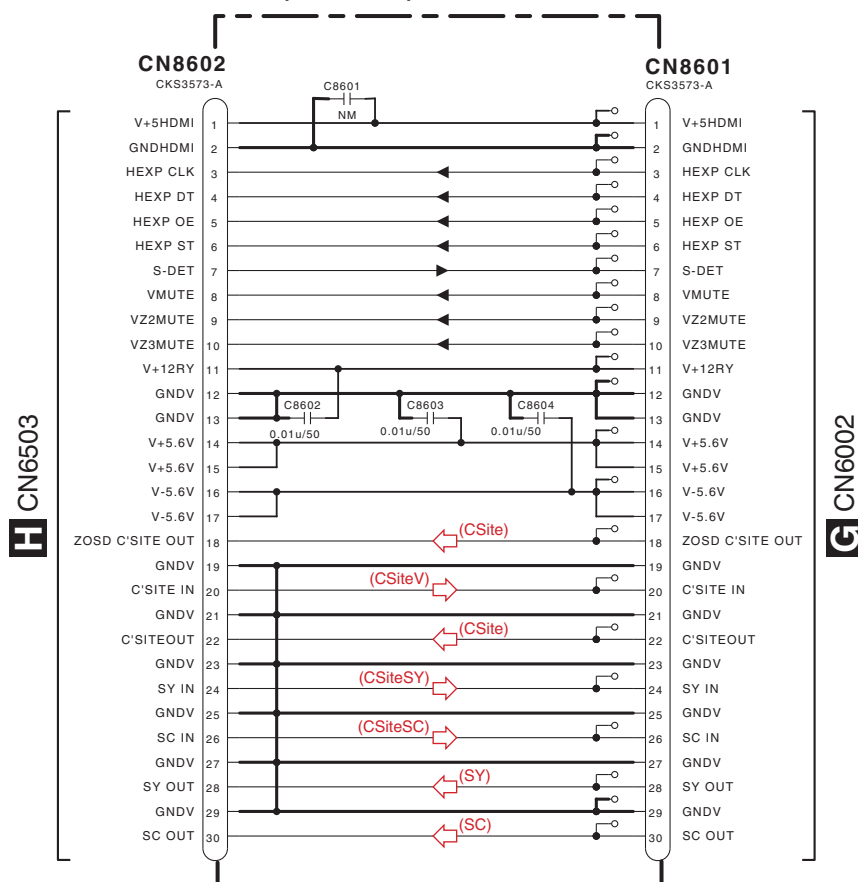
△

C



C

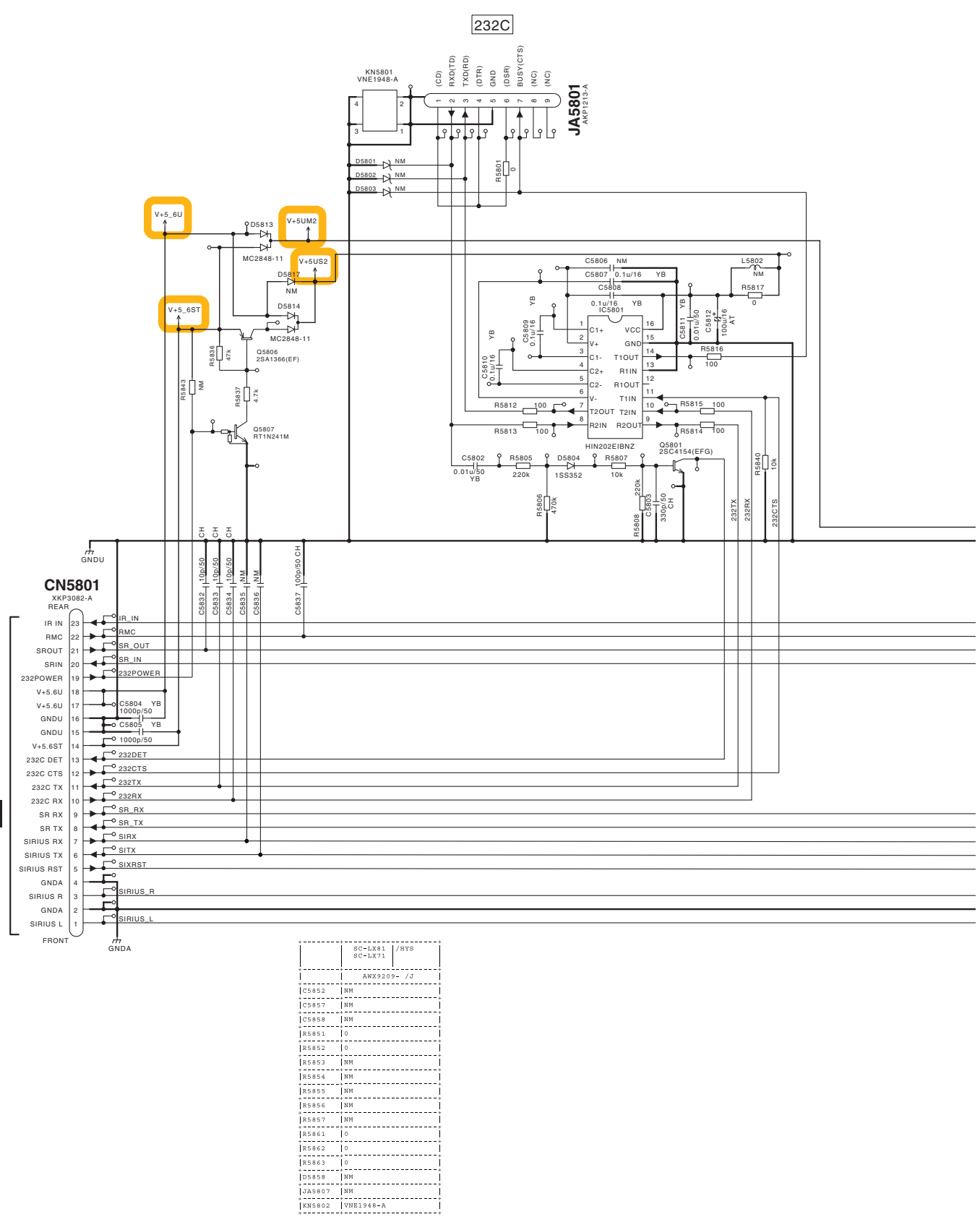
**J V-BRIDGE ASSY
(AWX9161)**



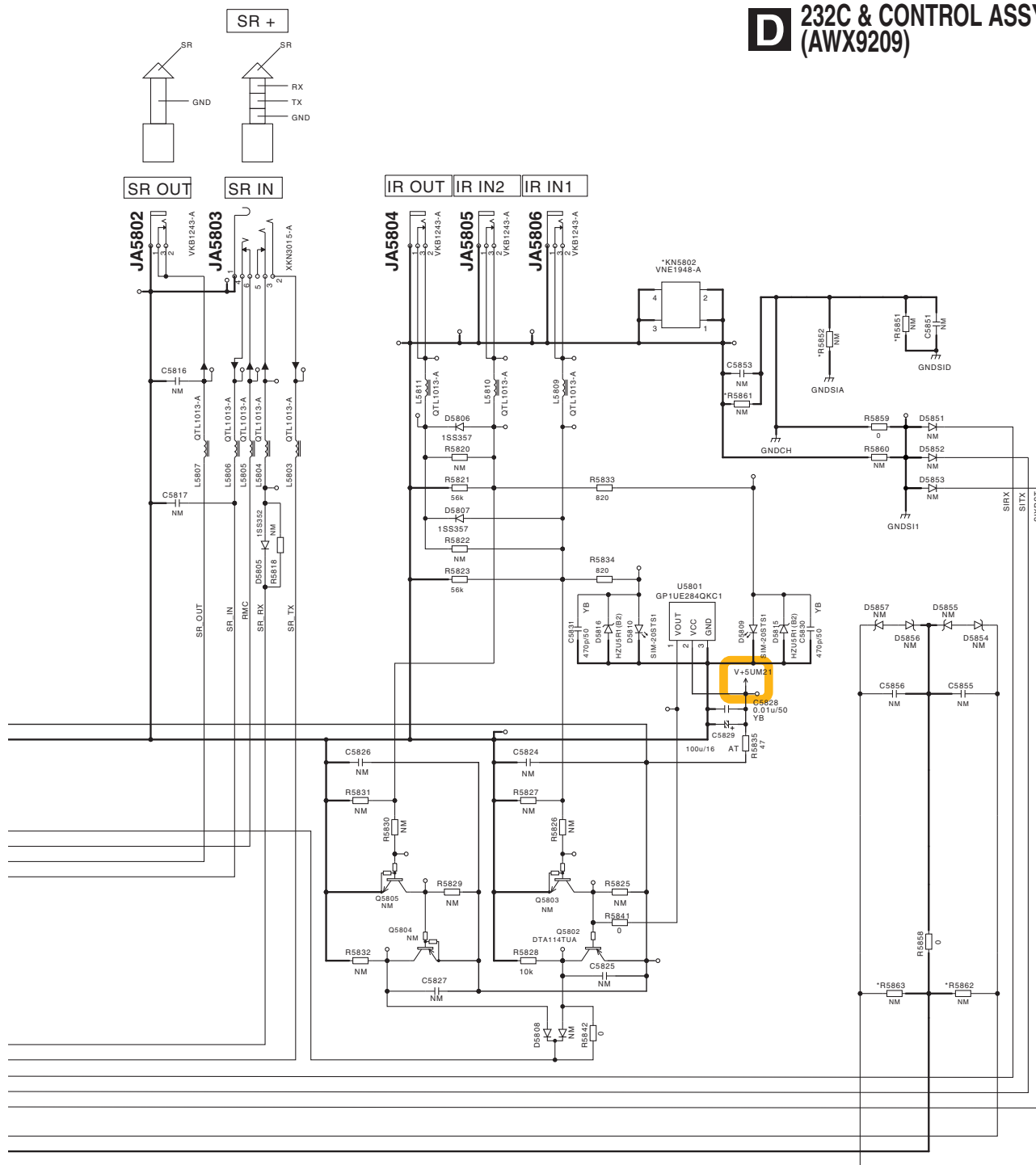
- (FSC) : S-Video Signal Route (Front C)
- (FSY) : S-Video Signal Route (Front Y)
- (FV) : Video Signal Route (Video)
- (D) : Audio Data Route
- (FVL) : Audio Signal Route (Video L ch)
- (M) : Audio Signal Route (Mic)
- (HPL) : Audio Signal Route (Headphone L ch)

- (SC)  : S-Video Signal Route (C)
- (SY)  : S-Video Signal Route (Y)
- (CSiteSC)  : Video Signal Route (Composite C)
- (CSiteSY)  : Video Signal Route (Composite Y)
- (CSiteV)  : Video Signal Route (Composite Video)
- (CSite)  : Video Signal Route (Composite)

10.7 232C & CONTROL ASSY

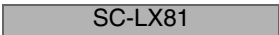


D 232C & CONTROL ASSY (AWX9209)



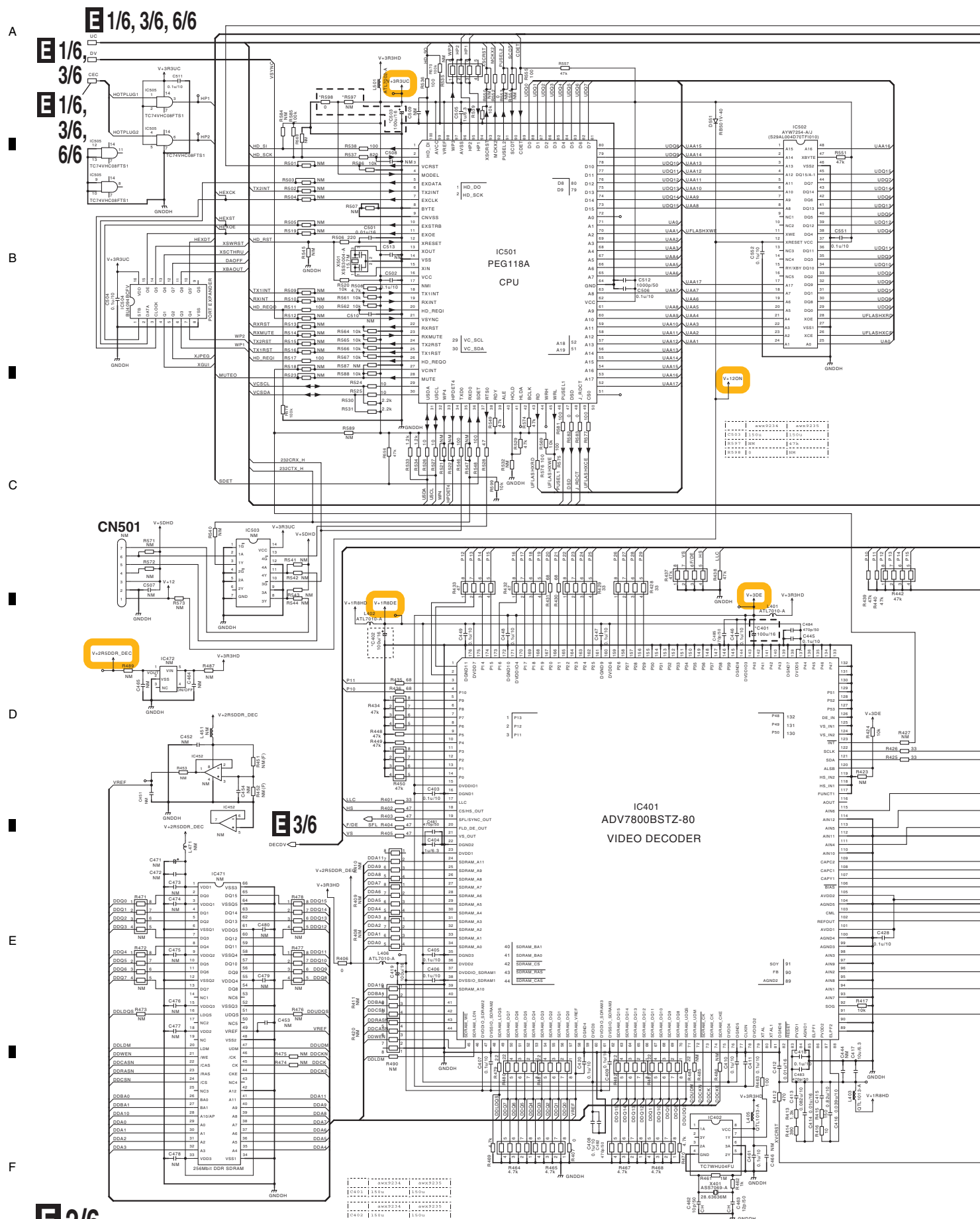
- NOTE**
- RESISTORS
Unit: k- Ω , M- Ω or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
 - CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
VB: CKSRV6, CH: CCSRCH, AT: QEA1
 - NM: No Mount

E 1/6
108





10.9 HDMI NETWORK ASSY (2/6)



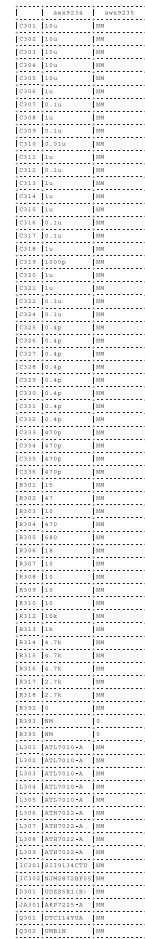
A

E



E 2/6

E 2/6



112

F



113

10.11 HDMI NETWORK ASSY (4/6)

A

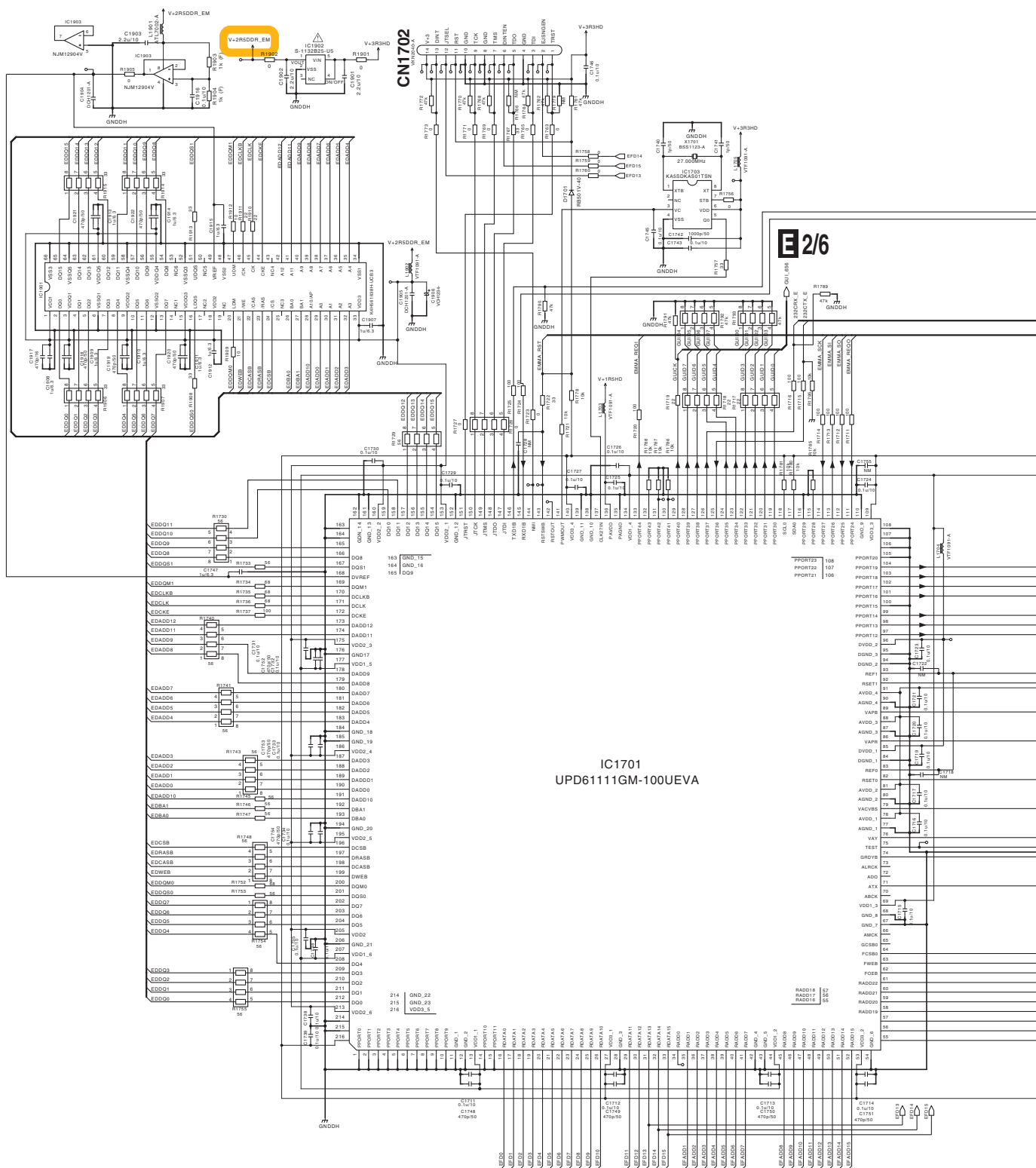
B

C

D

E

F



The Δ mark found on some component pins should be replaced with some same letter repeated according to the identical designation.

E 4/6 HDMI NETWORK ASSY (SC-LX81 : AWX9234) (SC-LX71 : AWX9235)

E 6/6
CN1701
VKN1425-A

B 1/4 CN2003

E 5/6
E 2/6

(Csite) : Video Signal Route (Composite)
(OSDy) : Video Signal Route (OSDy)
(OSDb) : Video Signal Route (OSDb)
(OSDr) : Video Signal Route (OSDr)

SC-LX81

E 4/6

10.12 HDMI NETWORK ASSY (5/6)

A

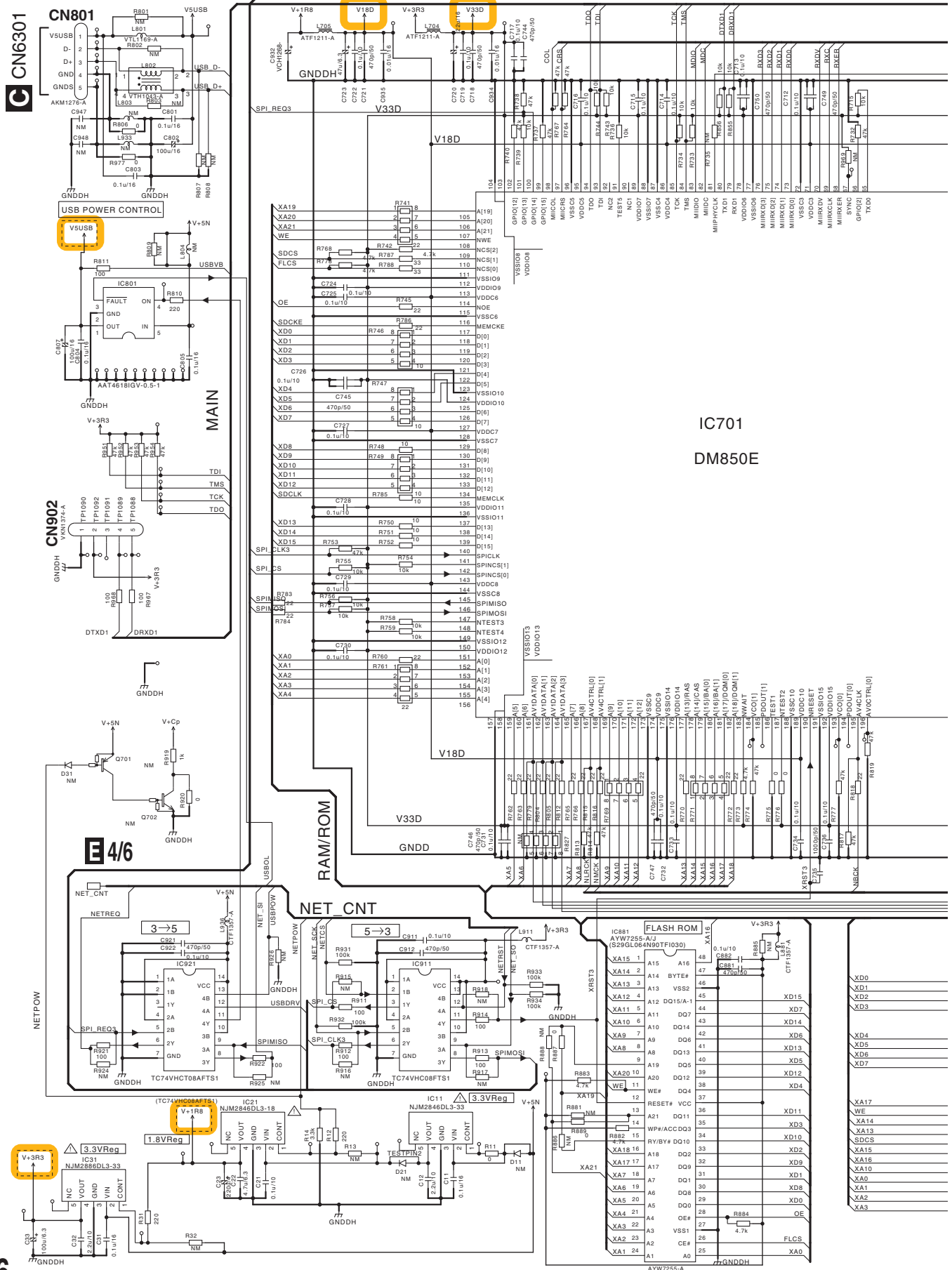
B

C

D

E

F



F



10.13 HDMI NETWORK ASSY (6/6)

A

B

C

D

E

F

1

2

3

4

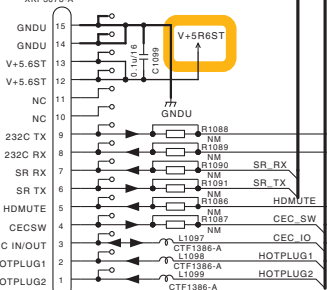
F CN7011

F CN7012

F CN7013

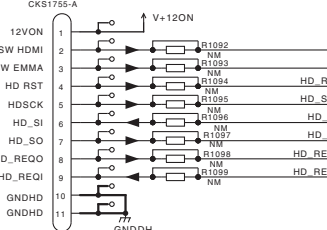
CN1002

XKP3078-A



CN1003

CKS1755-A

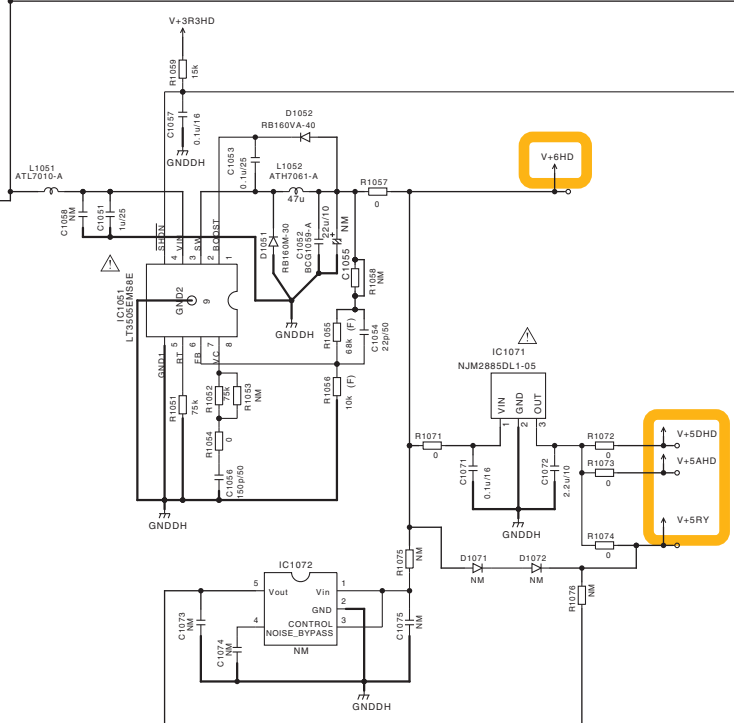
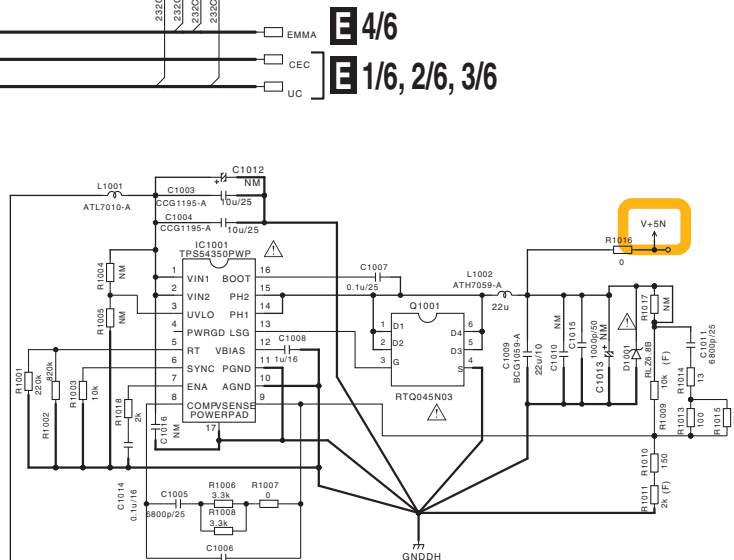
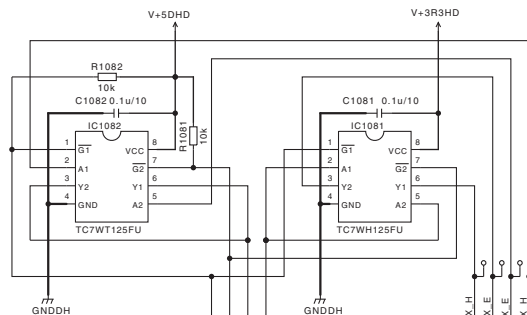


CN1001

CKS3815-A



The  mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.



E 4/6

E 1/6, 2/6, 3/6

E 6/6

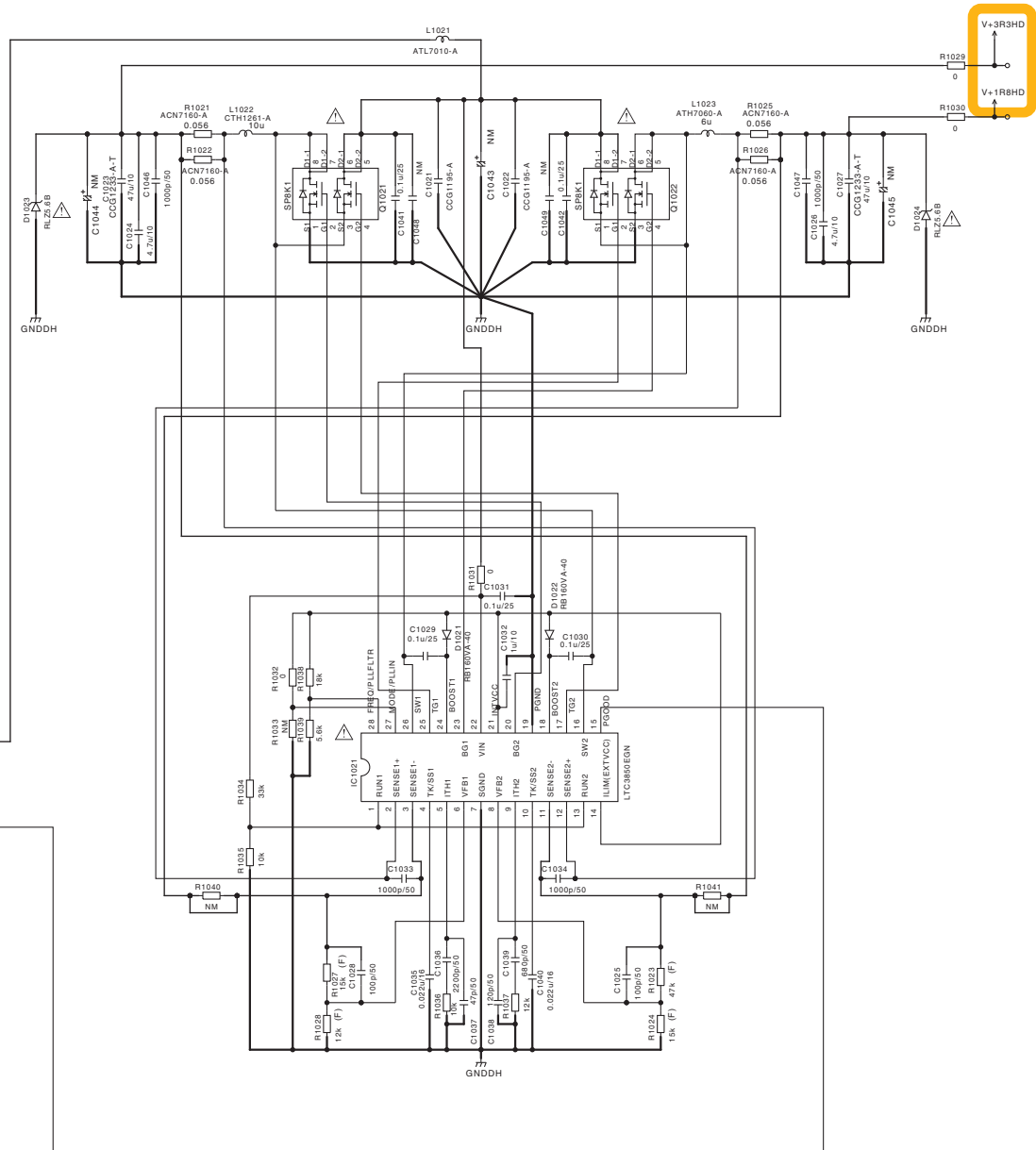
1

2

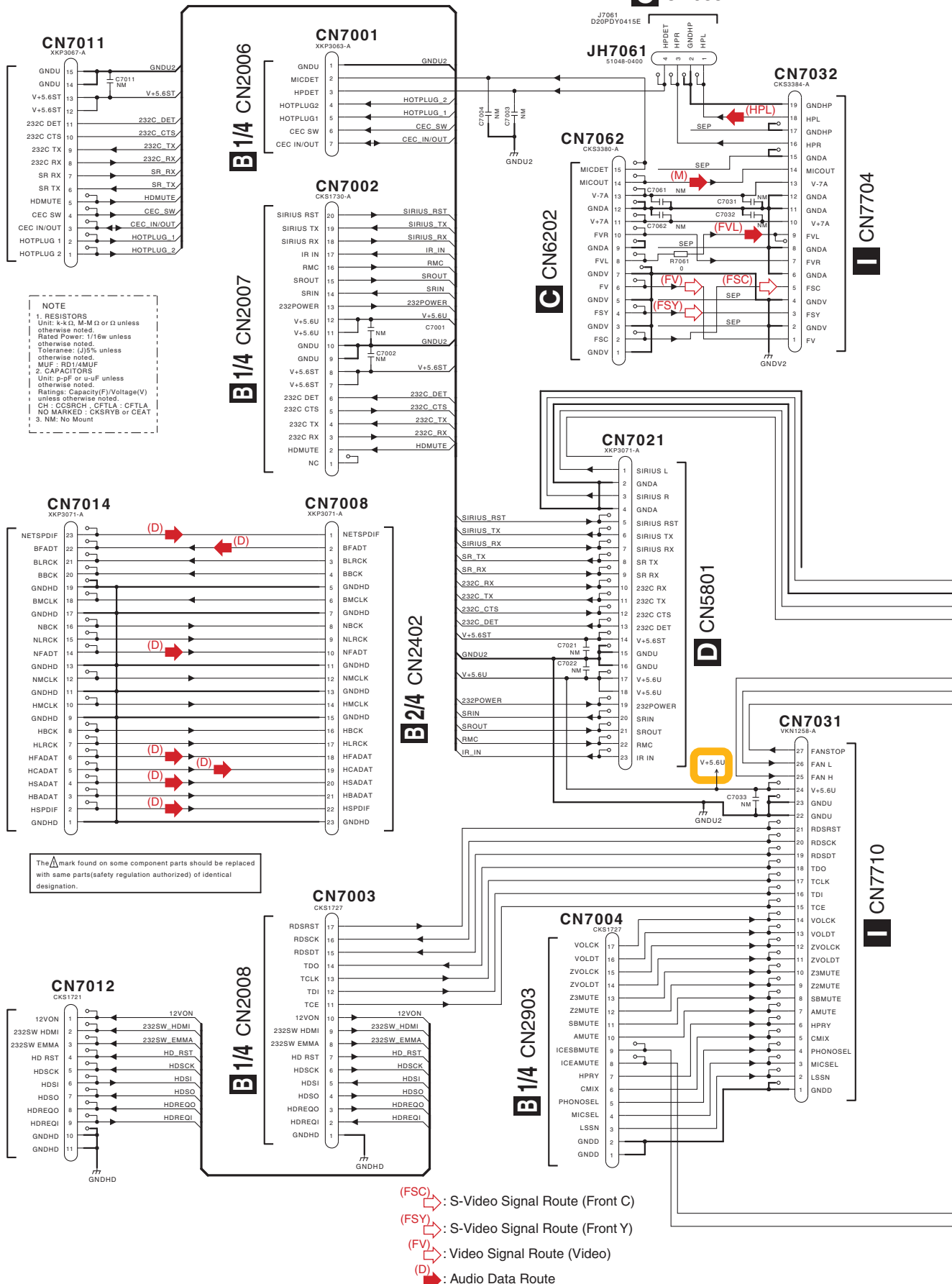
3

4

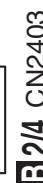
E 6/6 HDMI NETWORK ASSY (SC-LX81 : AWX9234) (SC-LX71 : AWX9235)



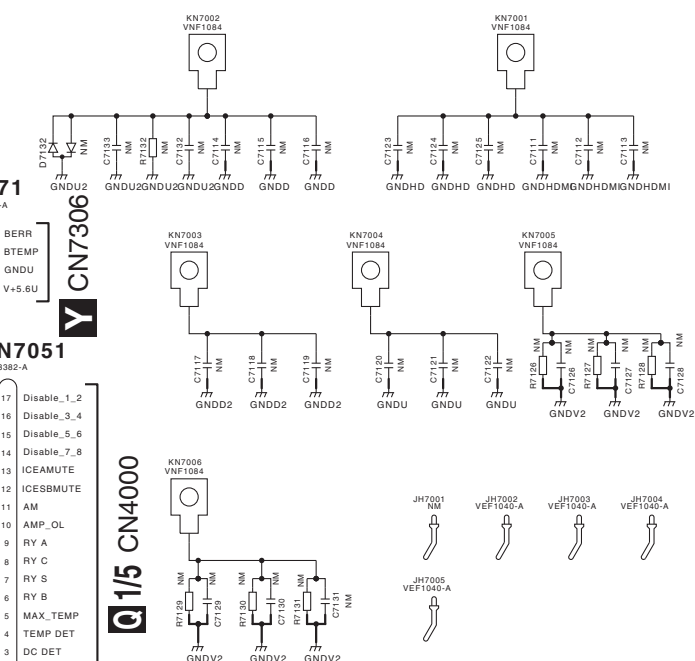
10.14 INTERFACE ASSY



A

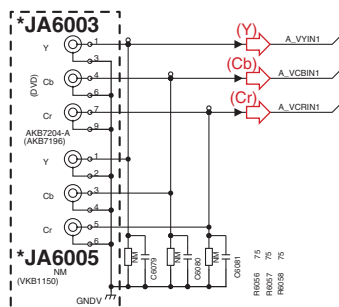


CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.



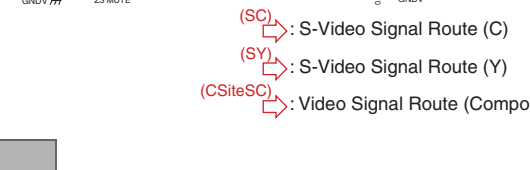
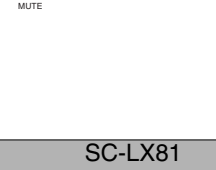
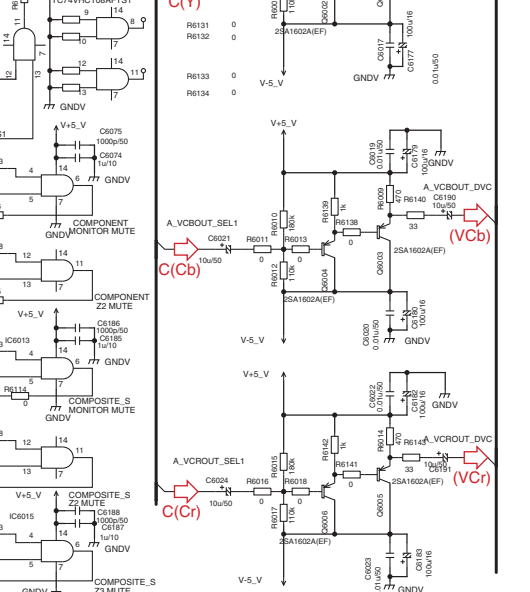
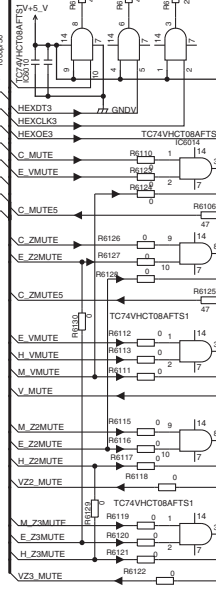
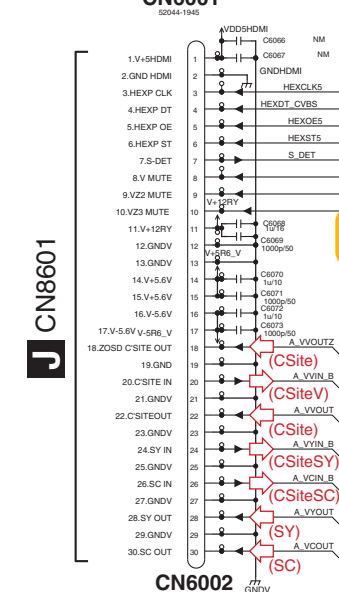
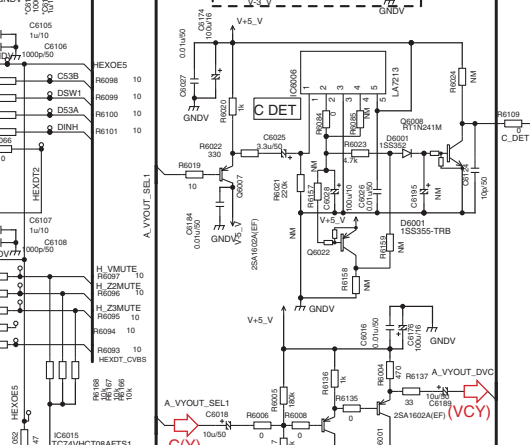
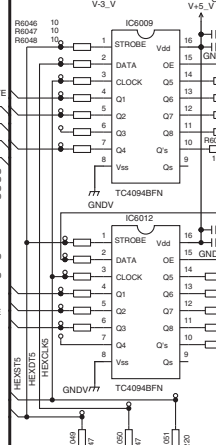
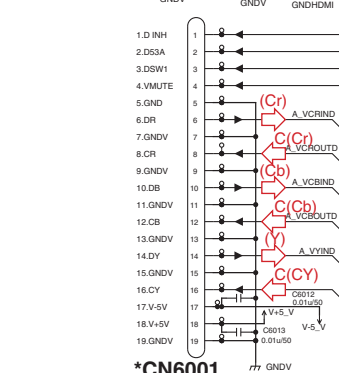
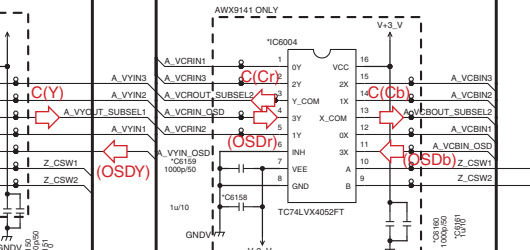
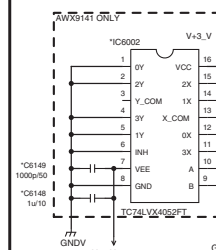
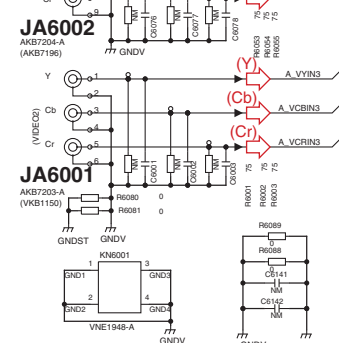
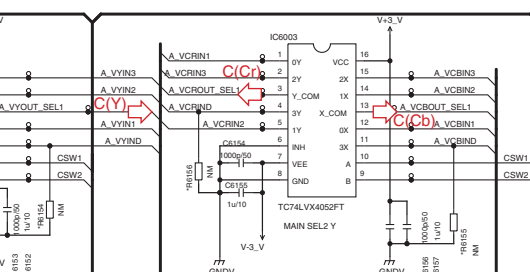
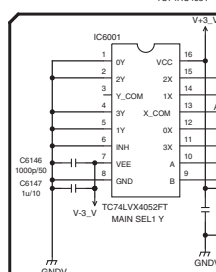
- (FL)  : Audio Signal Route (Front L ch)
- (SL)  : Audio Signal Route (Surround L ch)
- (C)  : Audio Signal Route (Center)
- (SB)  : Audio Signal Route (Surround Back L ch)
- (SW)  : Audio Signal Route (Subwoofer)

10.15 COMPONENT ASSY



*CSW2	L	L	H	H
*CSW1	L	H	L	H
OUT	0X	1X	2X	3X

INPUT SELECTOR



(SC) S-Video Signal Route (C)
(SY) S-Video Signal Route (Y)
(C Site SC) Video Signal Route (Composite C)

SC-LX81

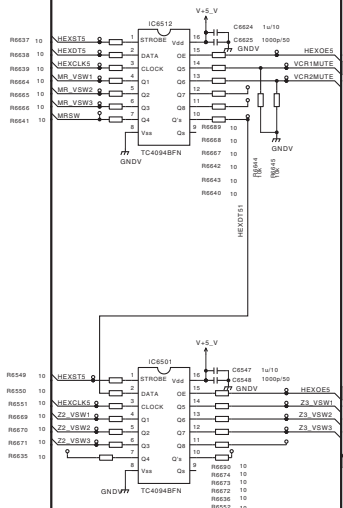
A

otherwise noted.
Ratings: Capacity(F)/Voltage(V)
unless otherwise noted.
CH: UNDER 1000pF,
otherwise: CKSRYB.
3. NM: No Mount



- (VCY) → Video Signal Route (VCY)
- (VCb) → Video Signal Route (VCb)
- (VCr) → Video Signal Route (VCr)
- (OSDY) → Video Signal Route (OSDY)
- (OSDb) → Video Signal Route (OSDb)
- (OSDr) → Video Signal Route (OSDr)

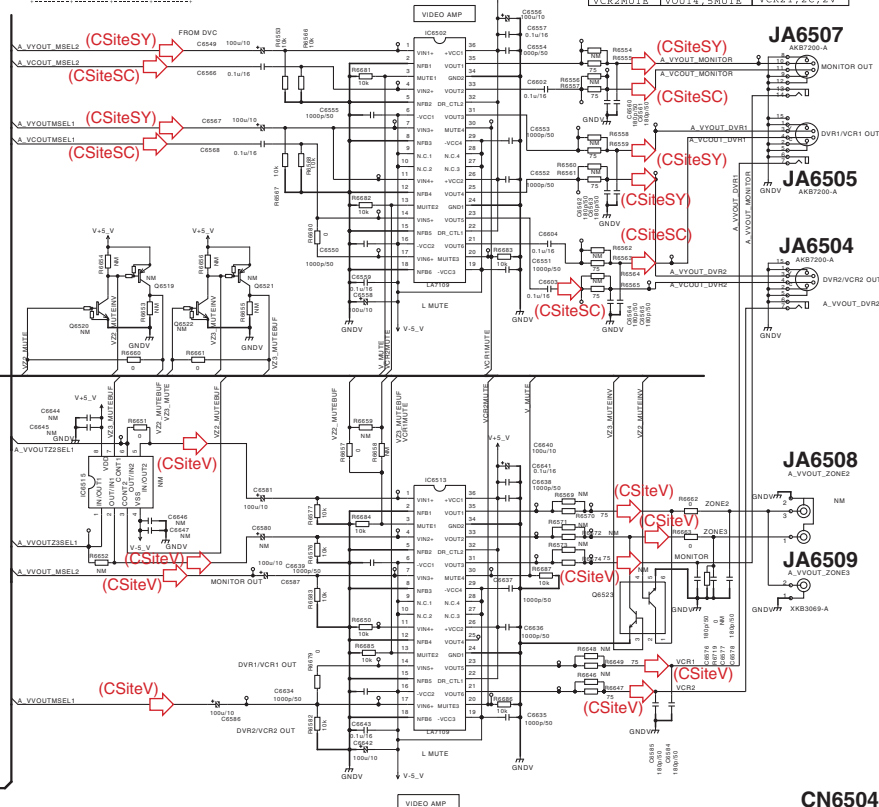
COMPOSITE S ASSY (AWX9144)



IC5812	HEX812	10	10
IC5812	HEX812	11	11
IC5812	HEX812	12	12
IC5812	HEX812	13	13
IC5812	HEX812	14	14
IC5812	HEX812	15	15
IC5812	HEX812	16	16
IC5812	HEX812	17	17
IC5812	HEX812	18	18
IC5812	HEX812	19	19
IC5812	HEX812	20	20
IC5812	HEX812	21	21
IC5812	HEX812	22	22
IC5812	HEX812	23	23
IC5812	HEX812	24	24
IC5812	HEX812	25	25
IC5812	HEX812	26	26
IC5812	HEX812	27	27
IC5812	HEX812	28	28
IC5812	HEX812	29	29
IC5812	HEX812	30	30
IC5812	HEX812	31	31
IC5812	HEX812	32	32
IC5812	HEX812	33	33
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IC5812	HEX812	36	36
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IC5812	HEX812	40	40
IC5812	HEX812	41	41
IC5812	HEX812	42	42
IC5812	HEX812	43	43
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IC5812	HEX812	45	45
IC5812	HEX812	46	46
IC5812	HEX812	47	47
IC5812	HEX812	48	48
IC5812	HEX812	49	49
IC5812	HEX812	50	50
IC5812	HEX812	51	51
IC5812	HEX812	52	52
IC5812	HEX812	53	53
IC5812	HEX812	54	54
IC5812	HEX812	55	55
IC5812	HEX812	56	56
IC5812	HEX812	57	57
IC5812	HEX812	58	58
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IC5812	HEX812	69	69
IC5812	HEX812	70	70
IC5812	HEX812	71	71
IC5812	HEX812	72	72
IC5812	HEX812	73	73
IC5812	HEX812	74	74
IC5812	HEX812	75	75
IC5812	HEX812	76	76
IC5812	HEX812	77	77
IC5812	HEX812	78	78
IC5812	HEX812	79	79
IC5812	HEX812	80	80
IC5812	HEX812	81	81
IC5812	HEX812	82	82
IC5812	HEX812	83	83
IC5812	HEX812	84	84
IC5812	HEX812	85	85
IC5812	HEX812	86	86
IC5812	HEX812	87	87
IC5812	HEX812	88	88
IC5812	HEX812	89	89
IC5812	HEX812	90	90
IC5812	HEX812	91	91
IC5812	HEX812	92	92
IC5812	HEX812	93	93
IC5812	HEX812	94	94
IC5812	HEX812	95	95
IC5812	HEX812	96	96
IC5812	HEX812	97	97
IC5812	HEX812	98	98
IC5812	HEX812	99	99
IC5812	HEX812	100	100

(FSC) : S-Video Signal Route (Front C)
(FSY) : S-Video Signal Route (Front Y)
(FV) : Video Signal Route (Video)

(SC) : S-Video Signal Route (C)
(SY) : S-Video Signal Route (Y)
(CSiteSC) : Video Signal Route (Composite C)
(CSiteSY) : Video Signal Route (Composite Y)
(CSiteV) : Video Signal Route (Composite Video)
(CSite) : Video Signal Route (Composite)
(Y) : Video Signal Route (Y)
(C) : Video Signal Route (C)
(V) : Video Signal Route (V)
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center)
(SB) : Audio Signal Route (Surround Back L ch)
(SW) : Audio Signal Route (Subwoofer)



L:ACTIVE(MUTE)			
V MUTE	VOUT1.2MUTE	MONITOR1.C.V	
VCR1MUTE	VOUT3.6MUTE	VCR1Y.1C.1V	
VCR2MUTE	VOUT4.5MUTE	VCR2Y.2C.2V	

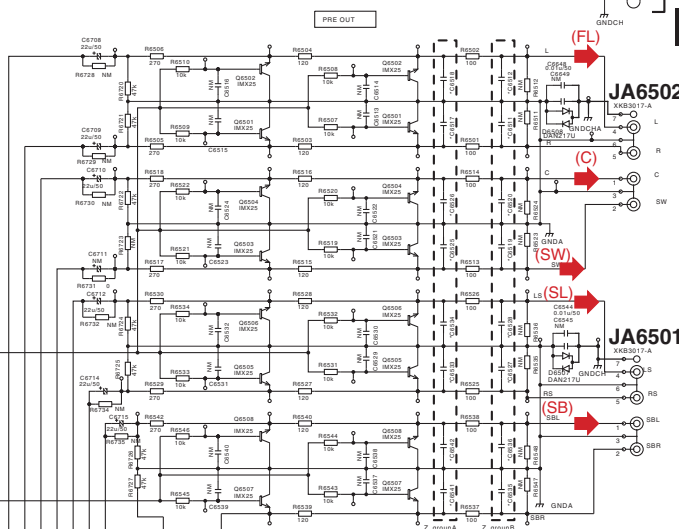
JA6507
AKB7200-A
MONITOR OUT

JA6505
AKB7200-A
DVR1/VCR1 OUT

JA6504
AKB7200-A
DVR2/VCR2 OUT

JA6508
AKB7200-A
A_VOUT_ZONE2

JA6509
AKB7200-A
A_VOUT_ZONE3

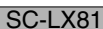


NOTE

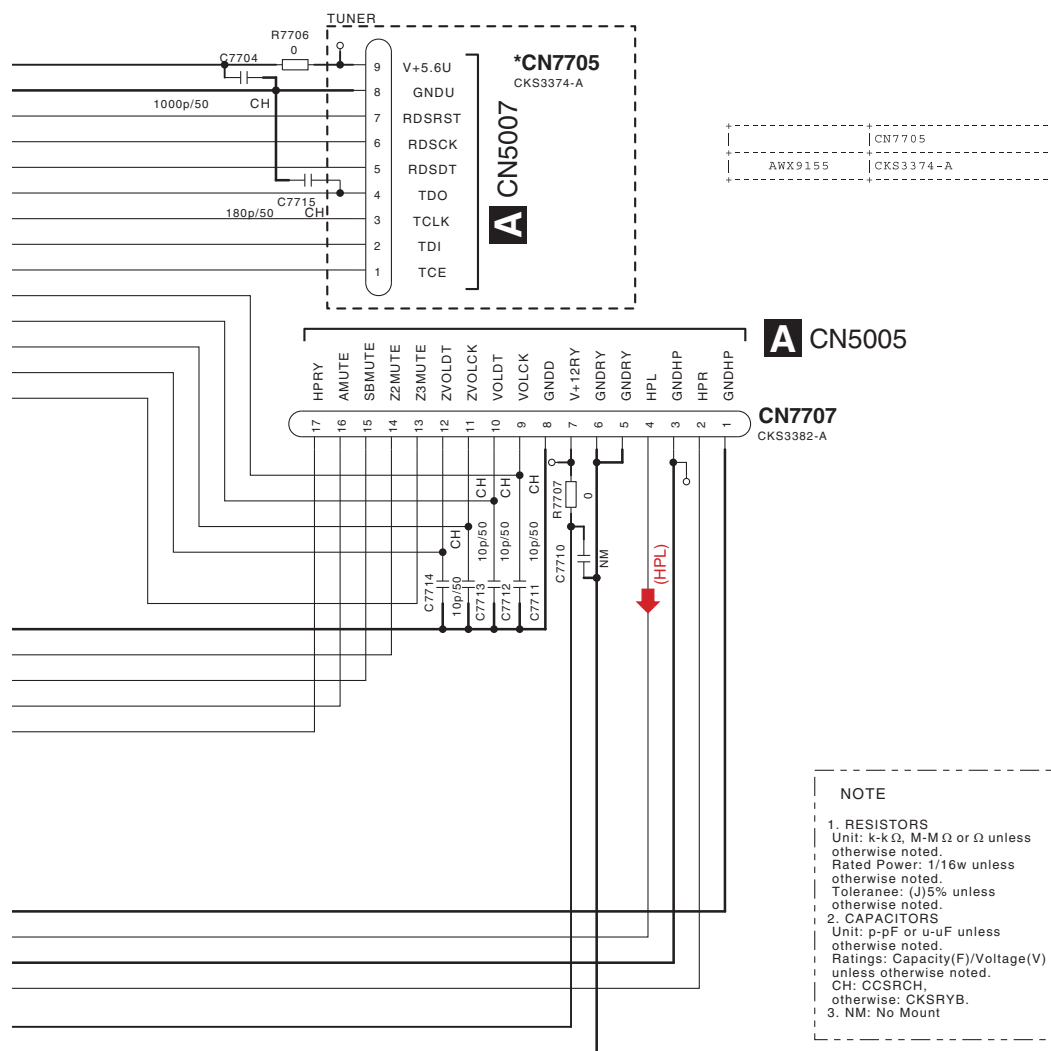
1. RESISTORS
Unit: kΩ, MΩ, or Ω unless otherwise noted.
Tolerance: 1% unless otherwise noted.
2. CAPACITORS
Unit: pF, nF, or μF unless otherwise noted.
Rating: Capacity (V) unless otherwise noted.
3. NM: No Mount

SC-LX81

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FRONT BRIDGE ASSY (AWX9155)



- (FSC) → S-Video Signal Route (Front C)
- (FSY) → S-Video Signal Route (Front Y)
- (FV) → Video Signal Route (Video)
- (FVL) → Audio Signal Route (Video L ch)
- (M) → Audio Signal Route (Mic)
- (HPL) → Audio Signal Route (Headphone L ch)

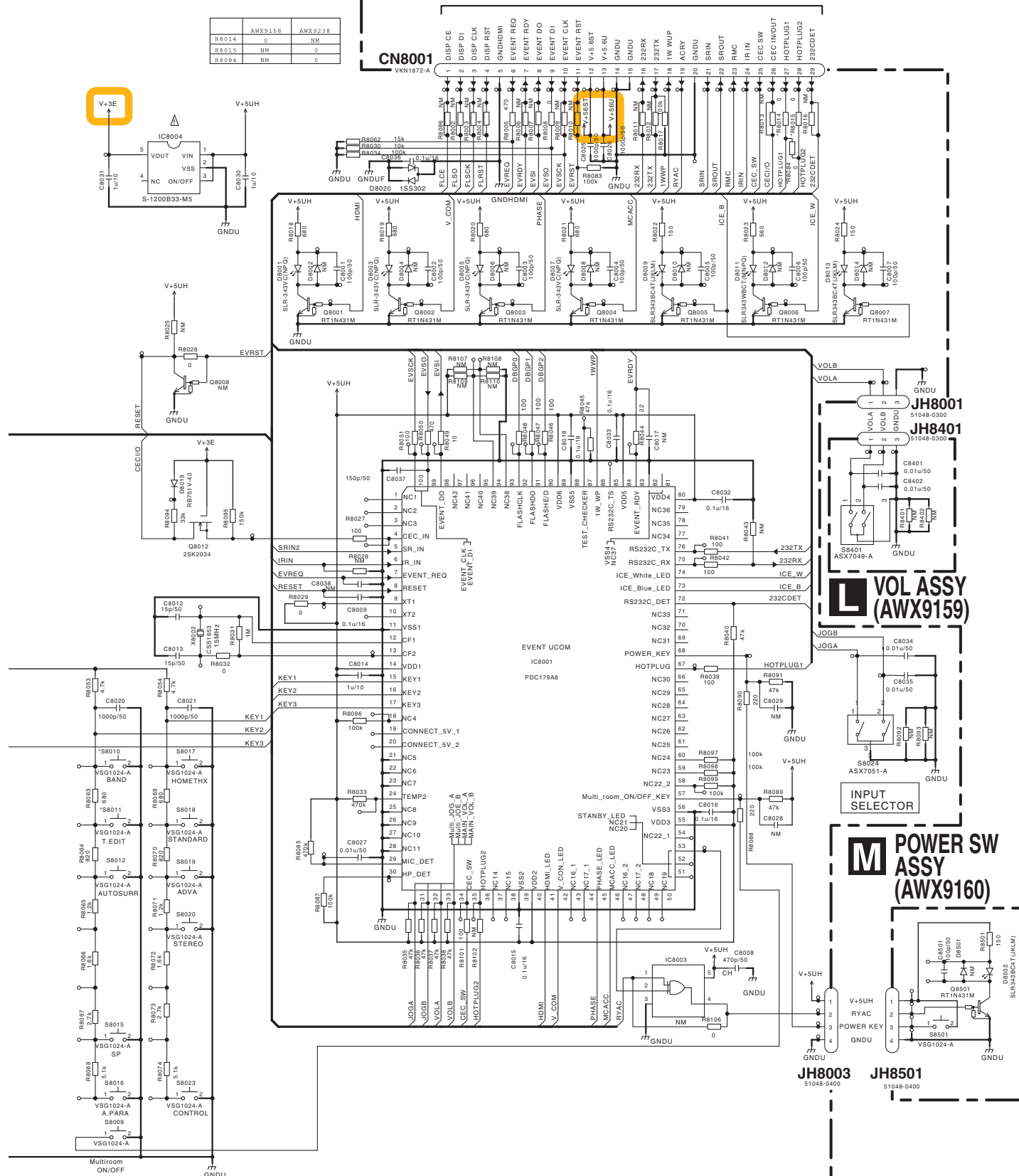
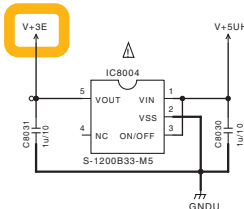
4

F

K DISPLAY ASSY (SC-LX81 : AWX9158) (SC-LX71 : AWX9238)

B 1/4 CN2002

	AWX9158	AWX9238
R8014	0	NM
R8015	NM	0
R8084	NM	0

CN8001
VK1872-A

JH8001
51048-0300
JH8401
51048-0300

VOL ASSY
(AWX9159)

INPUT SELECTOR
M POWER SW
ASSY
(AWX9160)

JH8003
51048-0400
JH8501
51048-0400

SC-LX81
K L M

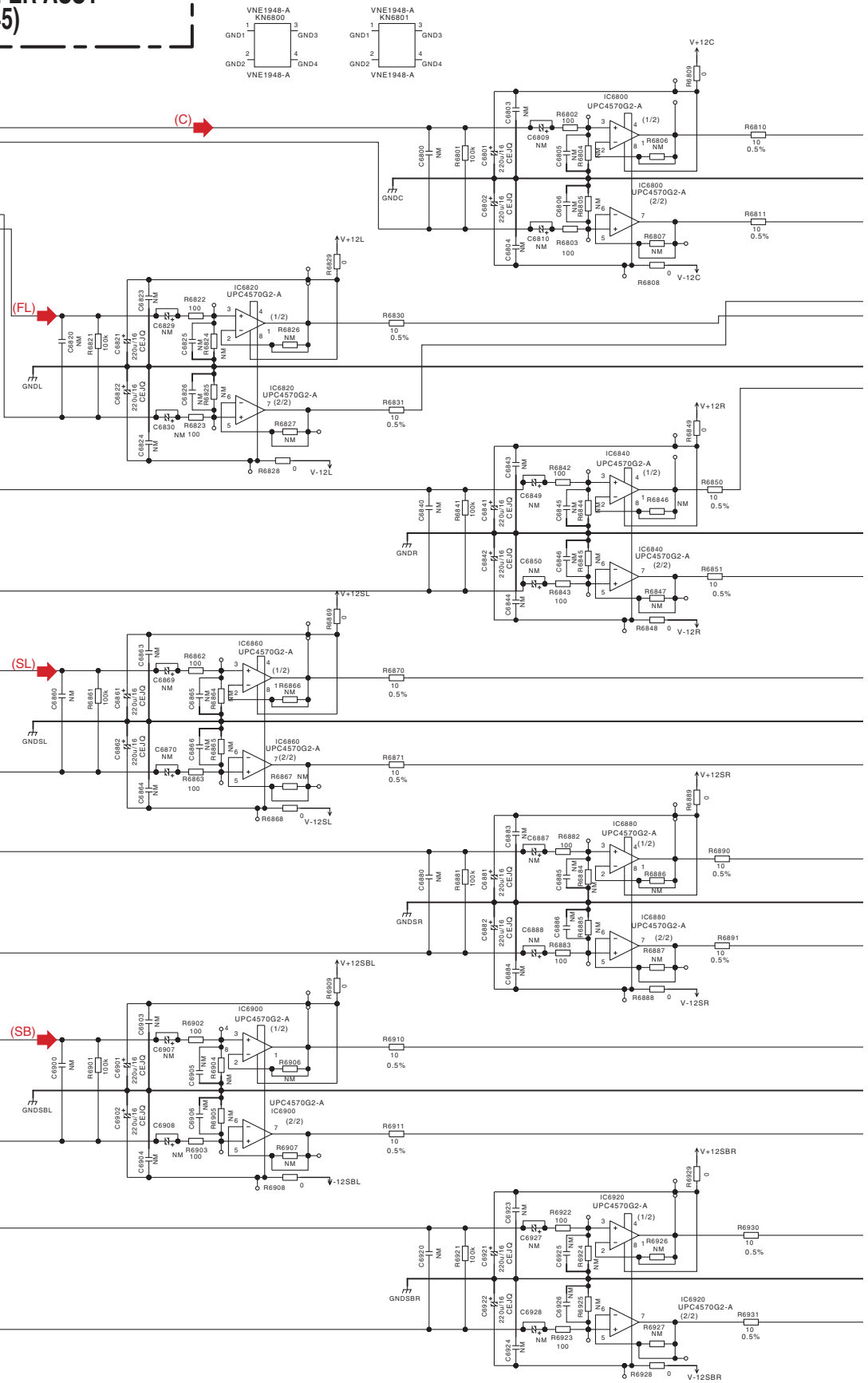
10.19 PRE BRIDGE, ICE BUFFER, ICE SHIELD and PRIMARY GUARD ASSYS

ICE BUFFER ASSY (AWX9145)

CN6800
IMSA-9850B-16A-T

N CN6953

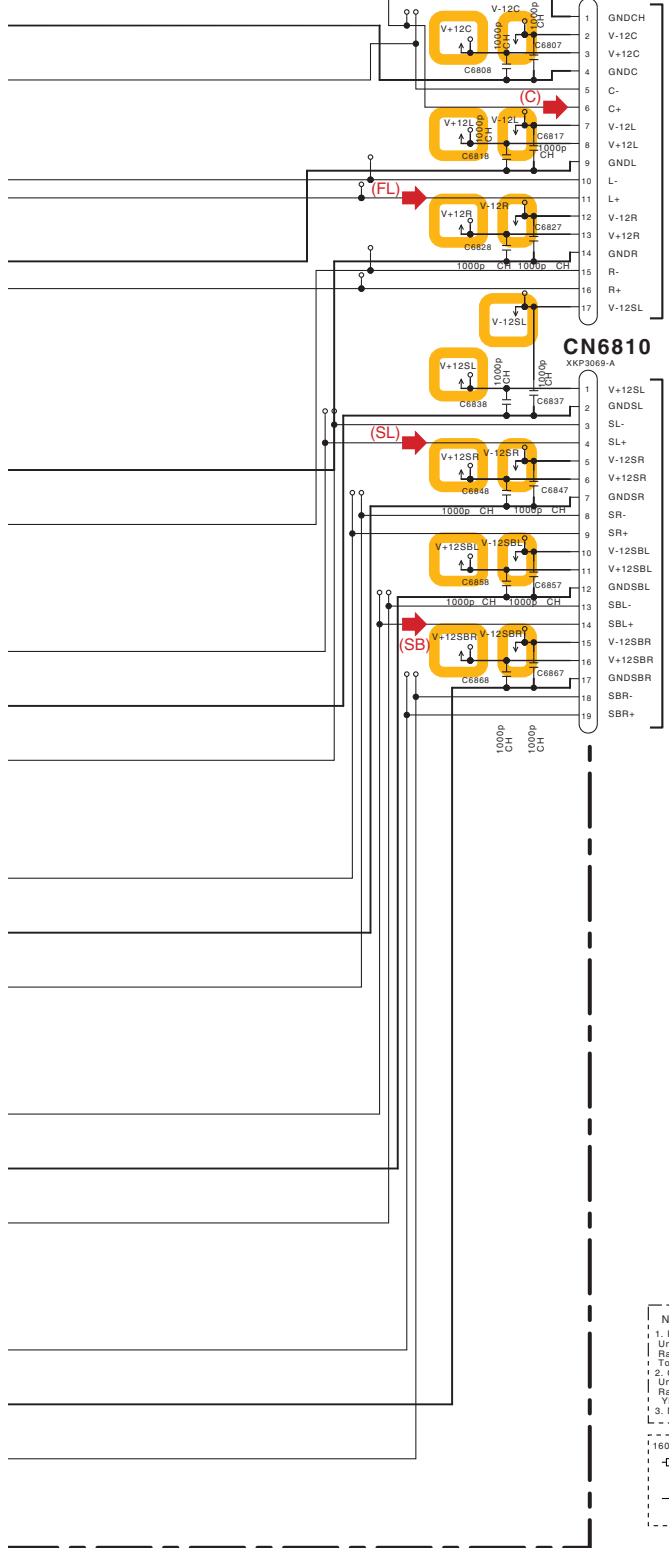
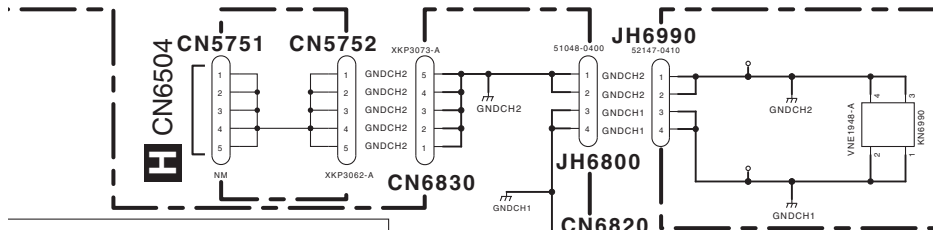
FR+
FR-
FL+
FL-
C+
C-
SR+
SR-
SL+
SL-
SBR+
SBR-
SBL+
SBL-
GNDCH1
GNDCH1



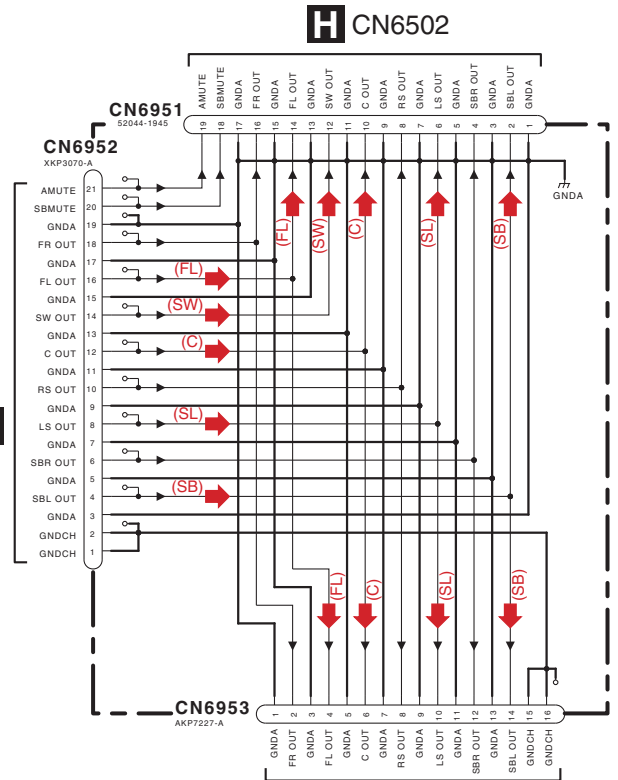
SC-LX81

U PRIMARY GUARD ASSY (AWX9172)

R ICE SHIELD ASSY (AWX9173)



N PRE BRIDGE ASSY (AWX9146)



O CN6800

- (FL) : Audio Signal Route (Front L ch)
- (SL) : Audio Signal Route (Surround L ch)
- (C) : Audio Signal Route (Center)
- (SB) : Audio Signal Route (Surround Back L ch)
- (SW) : Audio Signal Route (Subwoofer)

NOTE
1. RESISTORS
Unit: k-Ω, M-Ω or Ω, unless otherwise noted.
Rated Power: 1/16W unless otherwise noted.
Tolerance: ±0.5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Rating: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

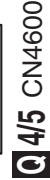
1608 SIZE	2125 SIZE	3216 SIZE
RS1/16S*** RN1/16S***	RS1/10S*** RS1/8SQ***	RS1/8S*** RS1/4SA***
CCSR*** CKSR***	CCSQ*** CKSQ***	CCS*** CKS***

NORU

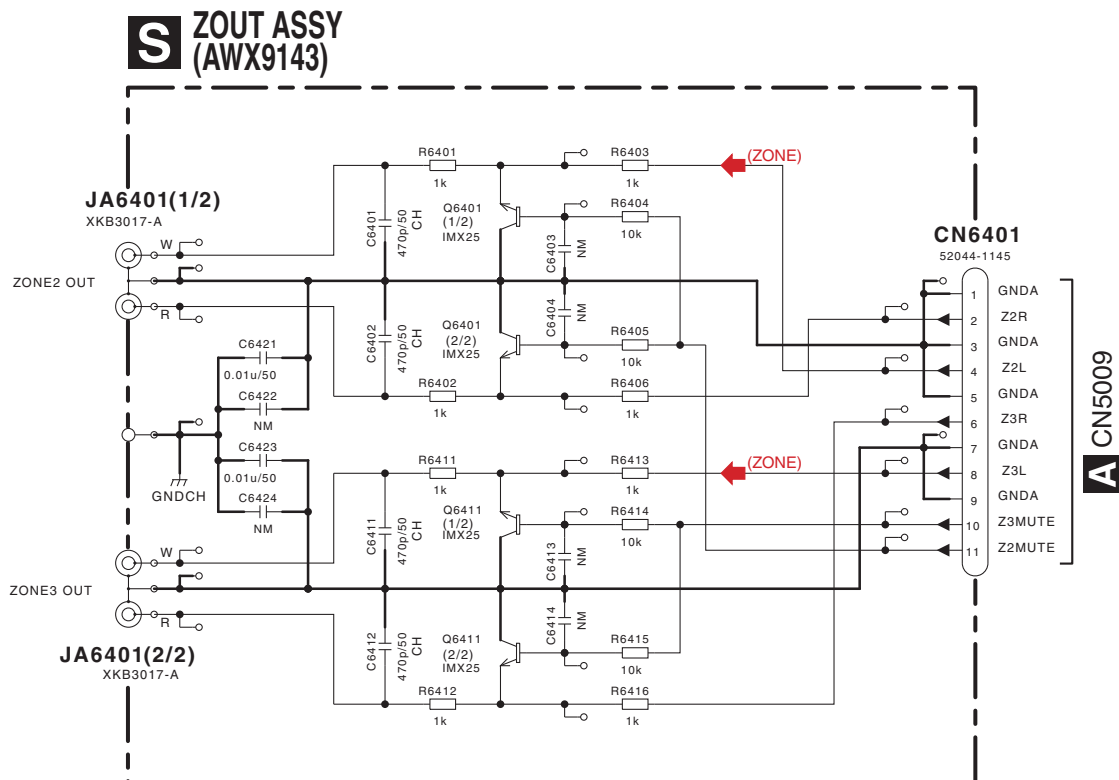
SC-LX81

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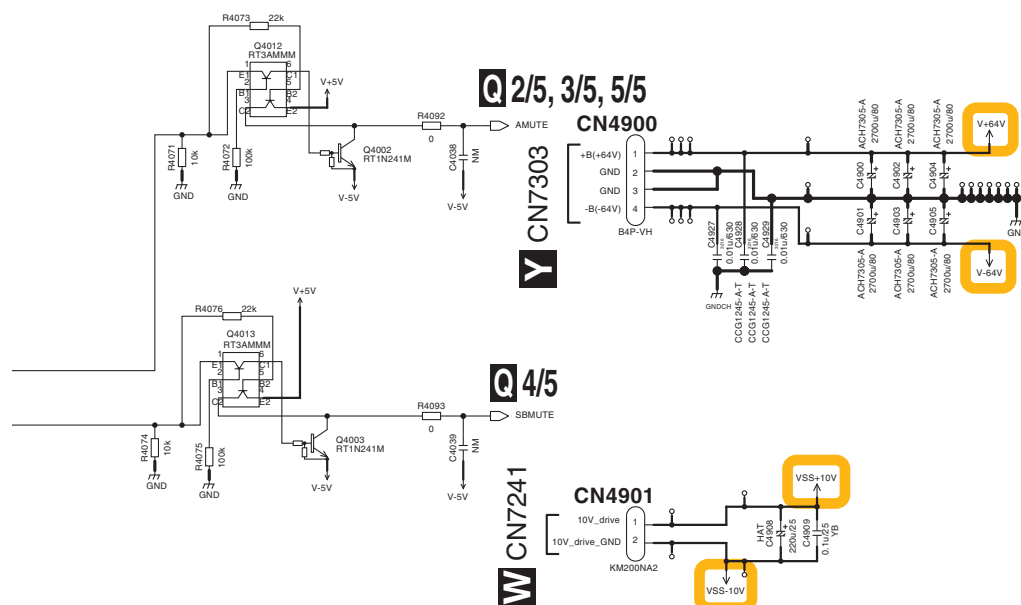
1



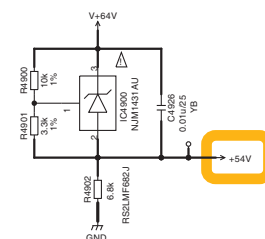
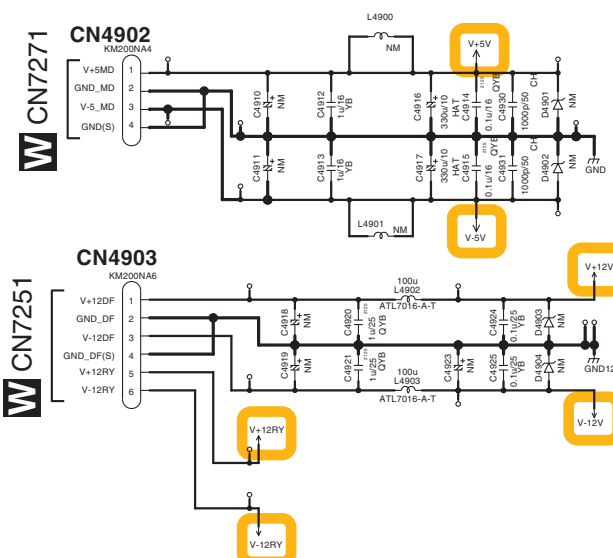
1608 SIZE	2125 SIZE	3216 SIZE
 RS1/16S*** RS1/16S***	 RS1/10S*** RS1/8SQ***	 RS1/8S*** RS1/4SA***
 CCS*** CKS***	 CCSQ*** CKSQ***	 CCS*** CKS***



Q 1/5 ICEPOWER AMP ASSY (AWH7017)



The Δ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.



NOTE
1. RESISTORS
Unit: k-k Ω , M-M Ω or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Tolerance: J05% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSR YB, YB:CKSOYB, YB:CKSYB, CH:CCSRCH
HAT:CEHAT, ZL:CEHAZL
3. NM: No Mount

1608 SIZE	2125 SIZE	3216 SIZE
RS1/16S*** RN1/16S***	RS1/10S*** RS1/8SQ*** 1/8W	RS1/8S*** RS1/4SA*** 1/4W
CCSR*** CKSR***	CCSQ*** CKSQ***	CCS*** CKS***

△

Q $1/5, 3/5,$
 $4/5, 5/5$

Q 1/5, 3/5, 5/5

Q $1/5, 3/5, 4/5, 5/5$

Q 1/5

Q 1/5, 3/5,
4/5, 5/5

1608 SIZE	2125 SIZE	3216 SIZE
 RS1/16S*** RN1/16S***	 RS1/10S***  RS1/8SQ*** 1/8W	 RS1/8S*** RS1/4SA*** 1/4W
 CCSR*** CKSR***	 CCSQ*** CKSQ***	 CCS*** CKS***

136

SC-LX81

A



C

D

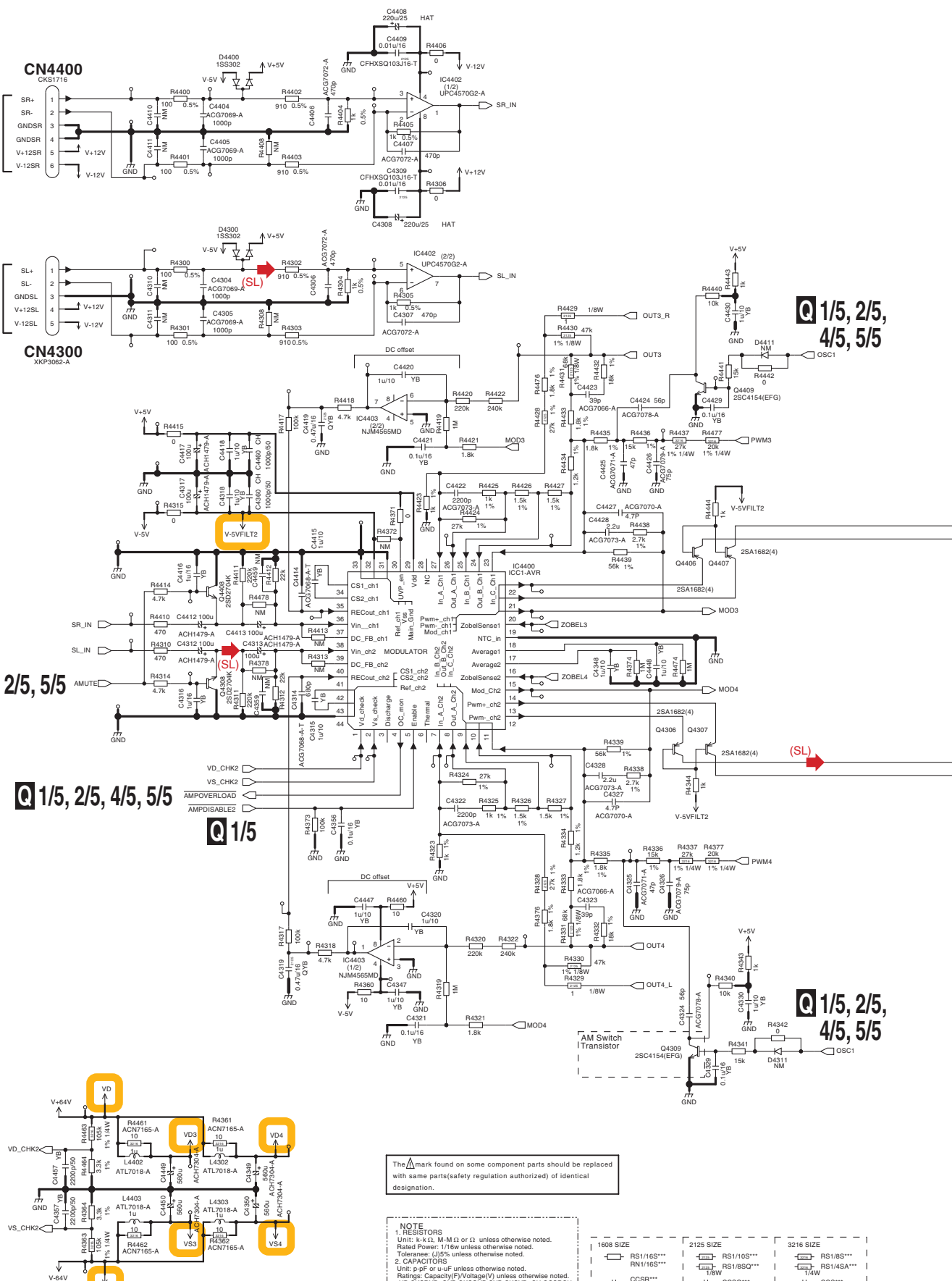
E

F

Q 2/5

△

1608 SIZE	2125 SIZE	3216 SIZE
 RS1/16S*** RN1/16S***	 RS1/10S*** RS1/8SQ*** 1/W	 RS1/8S*** RS1/4SA*** 1/W
 CCS*** CKS***	 CCS*** CKS***	 CCS*** CKS***



A



C

D

E

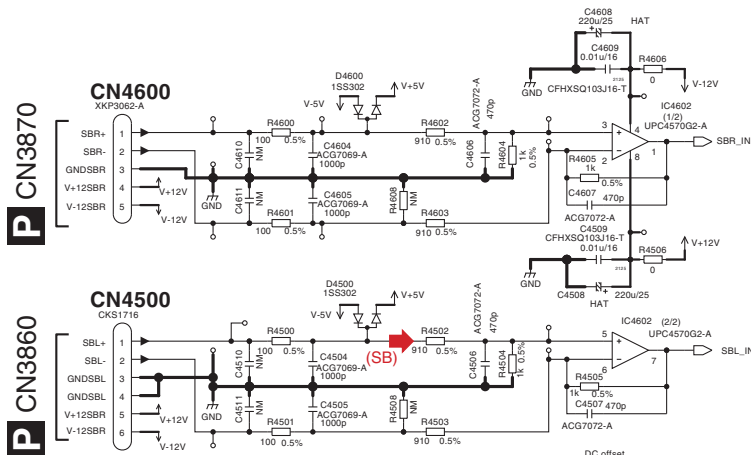
F

(SL) : Audio Signal Route (Surround L ch)

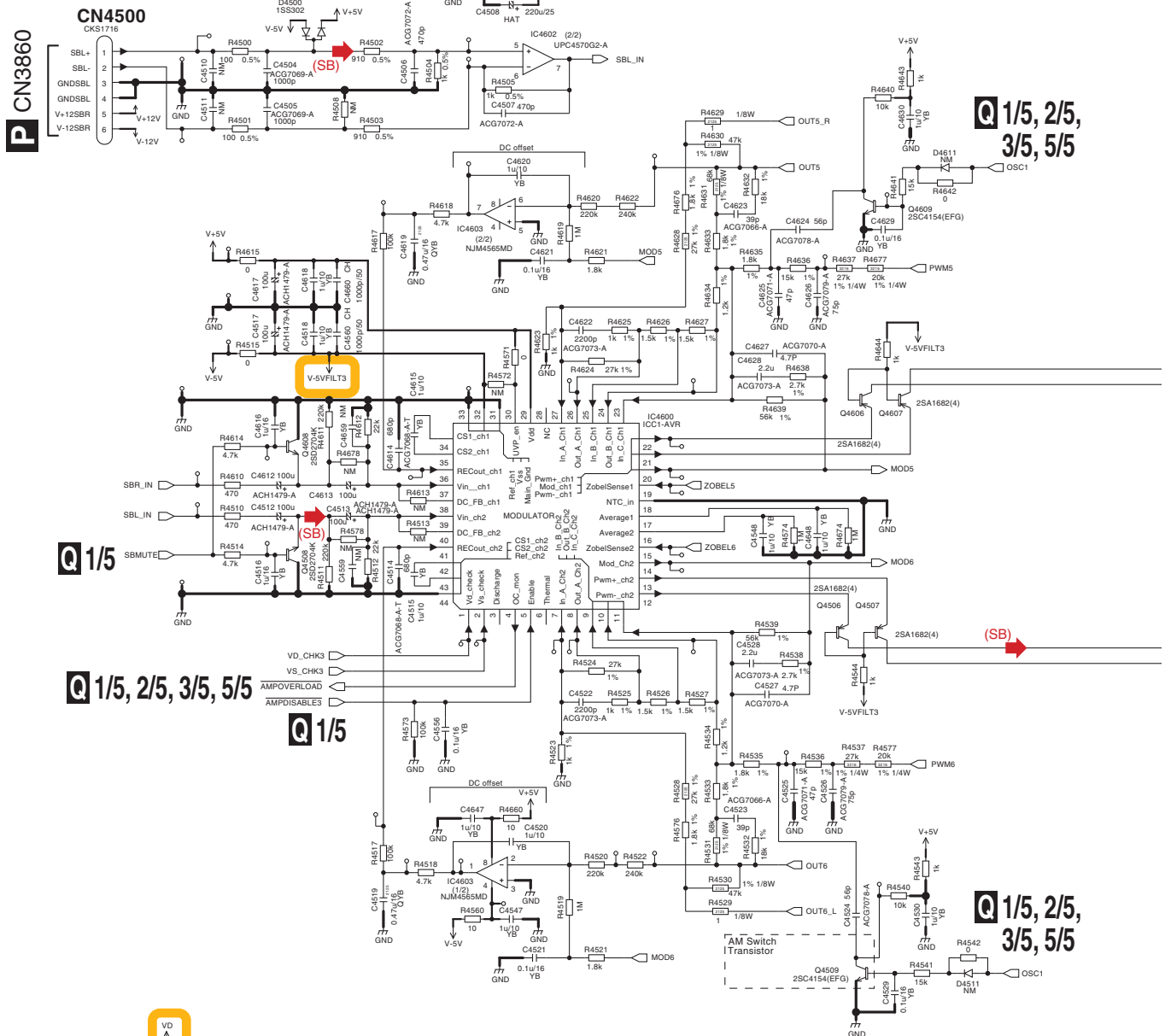
Q 3/5

10.24 ICEPOWER AMP (4/5)

A



B

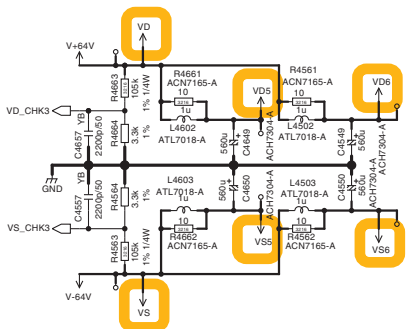


C

D

E

F



The Δ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

NOTE
1. RESISTORS
Unit: k-K, M-M, Ω-Ω, unless otherwise noted.
Rated Power: 1/16W unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)V(Voltage/V) unless otherwise noted.
YB:CKSR(YB), YB:CKSR(YB), YB:CKSR(YB), CH:CCSR(YB),
HAT:CEHAT, ZL:CEHAZL
3. NM: No Mount

1608 SIZE	2125 SIZE	3216 SIZE
$\square$ RS1/16S*** RN1/16S***	$\square$ RS1/10S*** RS1/8SQ*** RS1/4SA***	$\square$ RS1/8S*** RS1/4SA*** CCS***
$\square$ CCSR*** CKSR***	$\square$ CCSO*** CKSO***	$\square$ CCS*** CKS***

A



C

D

E

F

4

F



A



(C)  : Audio Signal Route (Center)

NOTE
1. RESISTORS
Unit: k-k Ω , M-M Ω or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
YB:CKSYB, YQB:CKSQYB,SYB:CKSYB, CH:CCSRCH
HAT:CEHAT, ZL:CEHAZL
3. NM: No Mount

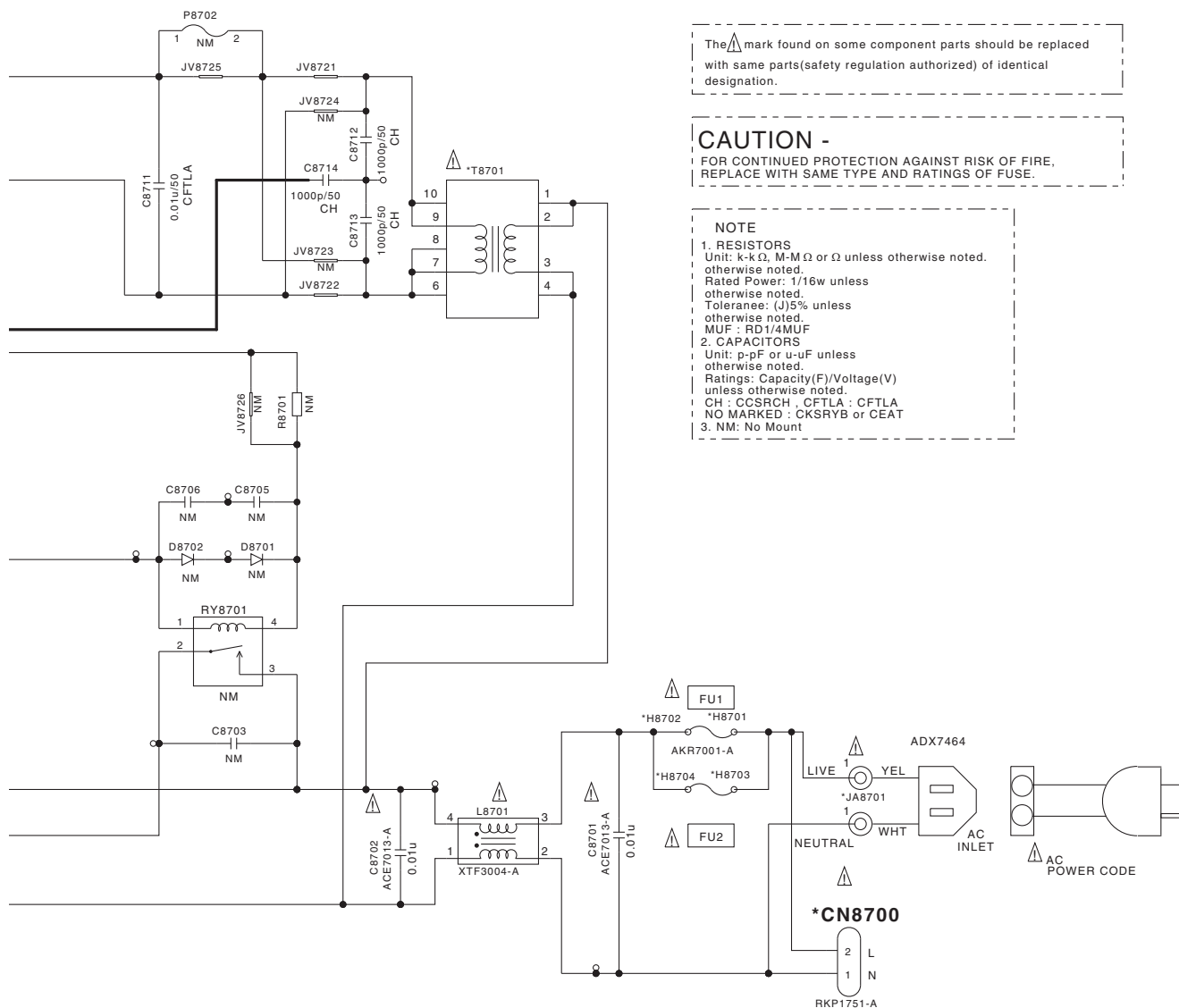
1608 SIZE	2125 SIZE	3216 SIZE
 RS1/16S*** RN1/16S***	 RS1/10S*** RS1/8SQ***	 RS1/8S*** RS1/4SA***
CCSR*** CKSR***	1/6W 1/2125 CCSQ*** CKSQ***	1/4W 1/3216 CCS*** CKS***

△

F

T PRIMARY ASSY (AWX9166)

	AWX9166
CN8700	NM
H8701	AKR7001-A
H8702	AKR7001-A
H8703	NM
H8704	NM
JA8701	ADX7464-A
JA8701_1	ADX7464-A_1
KN8703	VNE1948-A
T8701	ATT7040-A



The Δ mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

CAUTION -

FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

NOTE

- 1. RESISTORS**
Unit: k-k Ω , M-M Ω or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
MUF : RD1/4MUF
- 2. CAPACITORS**
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
CH : CCSRCH, CFTLA : CFTLA
NO MARKED : CKSRYB or CEAT
- 3. NM: No Mount**

PRIMARY ASSY

△





10.28 ICE REG ASSY

A

B

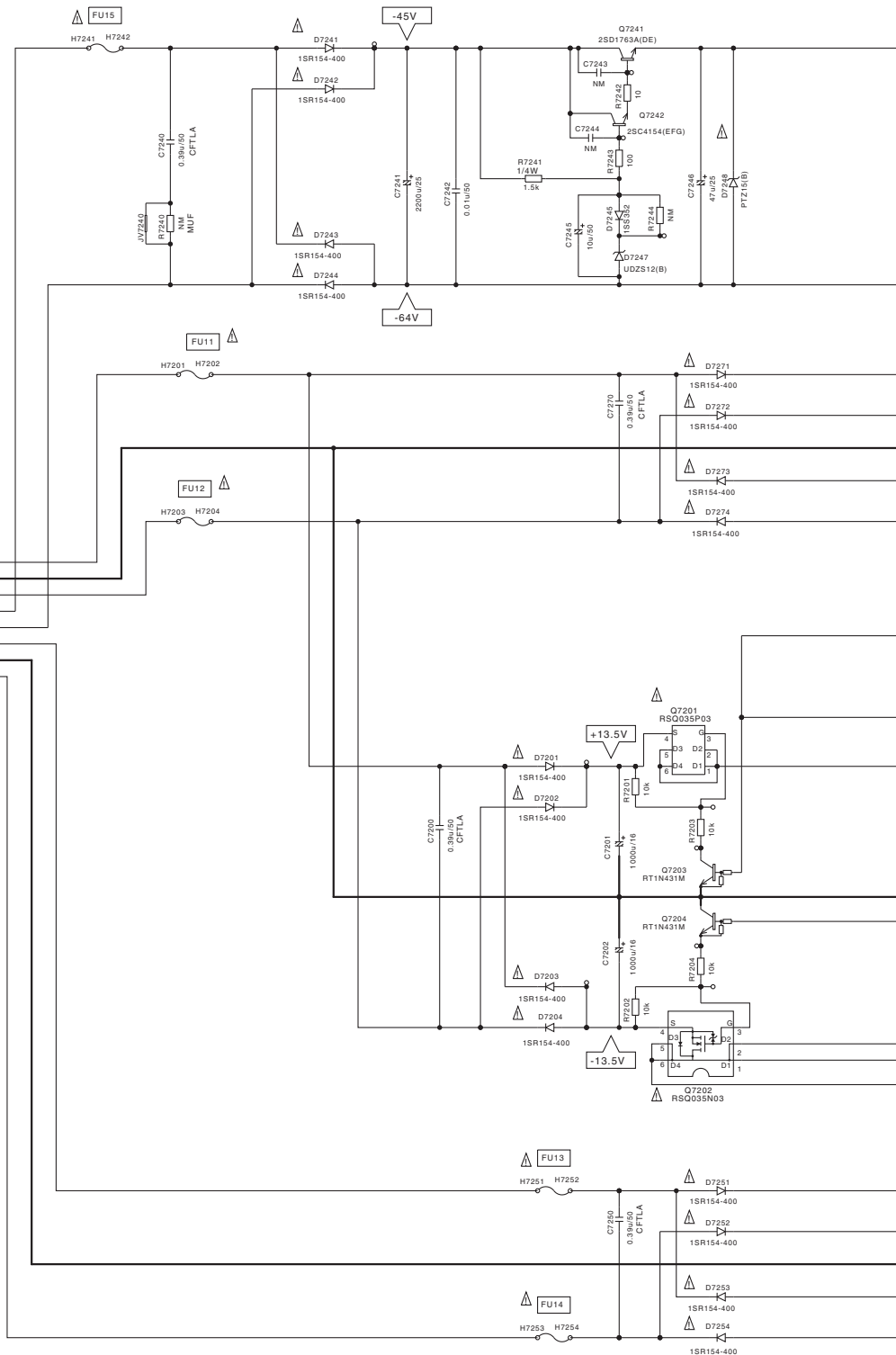
C

D

E

F

MAIN TRANS
CN7201
SEC3-1
SEC3-C
SEC3-2
SEC2-1
SEC2-2
SEC9-1
SEC9-C
SEC9-2
BBB-EH

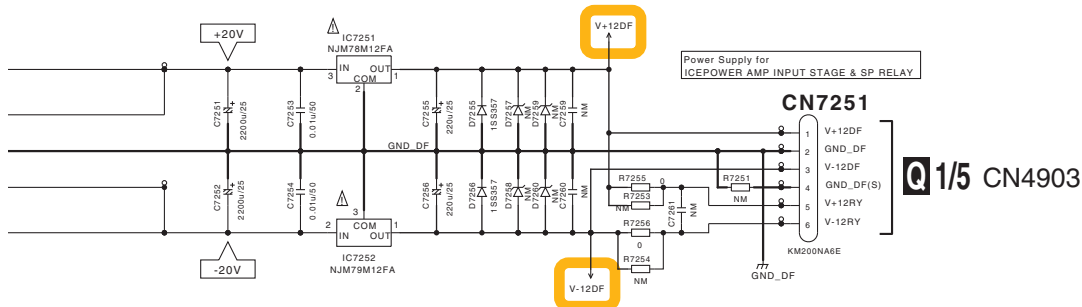
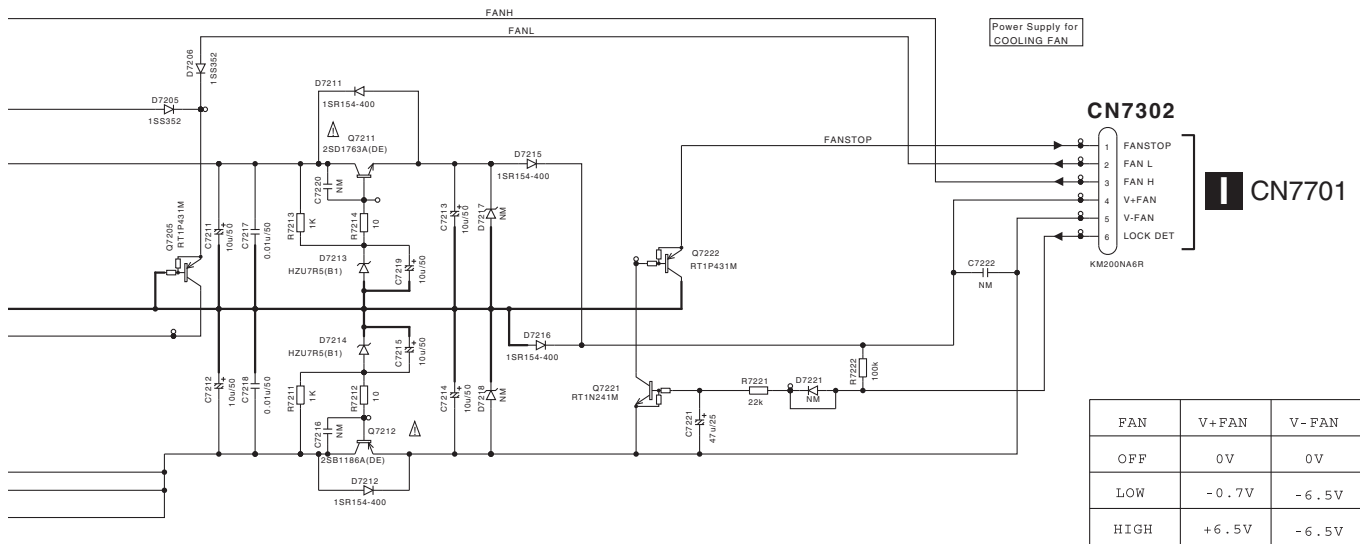
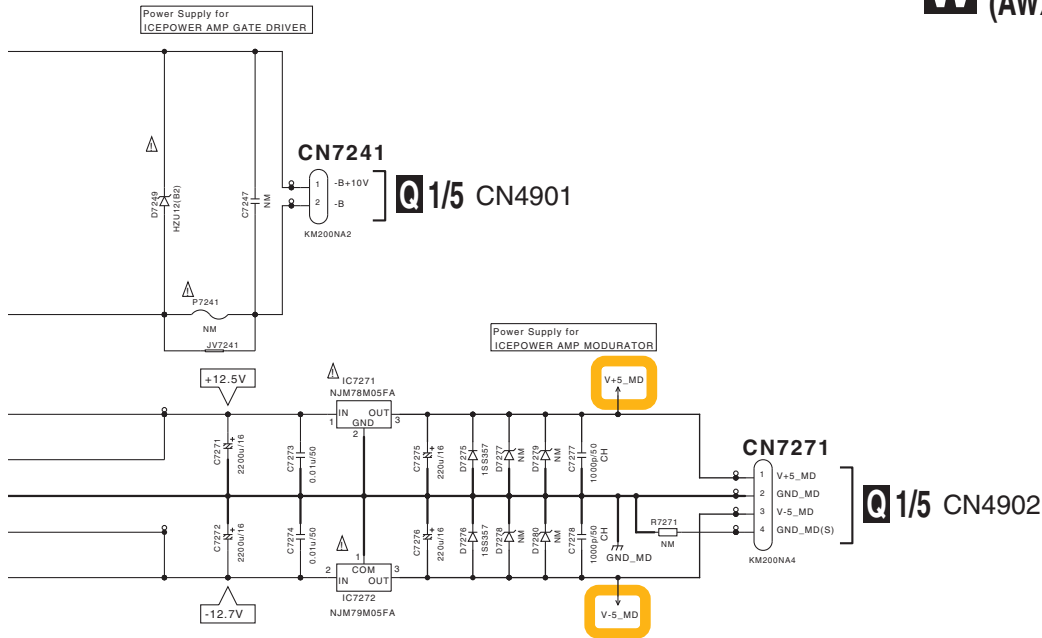


NOTE
1. RESISTORS
Unit: k- Ω , M- Ω or Ω unless
otherwise noted.
Rated Power: 1/16W unless
otherwise noted.
Tolerance: (J)5% unless
otherwise noted.
MUF: RD1/4MUF
2. CAPACITORS
Unit: p-pF or μ -uF unless
otherwise noted.
Ratings: Capacity(F)/Voltage(V)
unless otherwise noted.
CH: CCSRCH, CFTLA: CFTLA
NO MARKED: CCSRYB or CEAT
3. NM: No Mount



**CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.**





The  mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

A

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

B

C

D

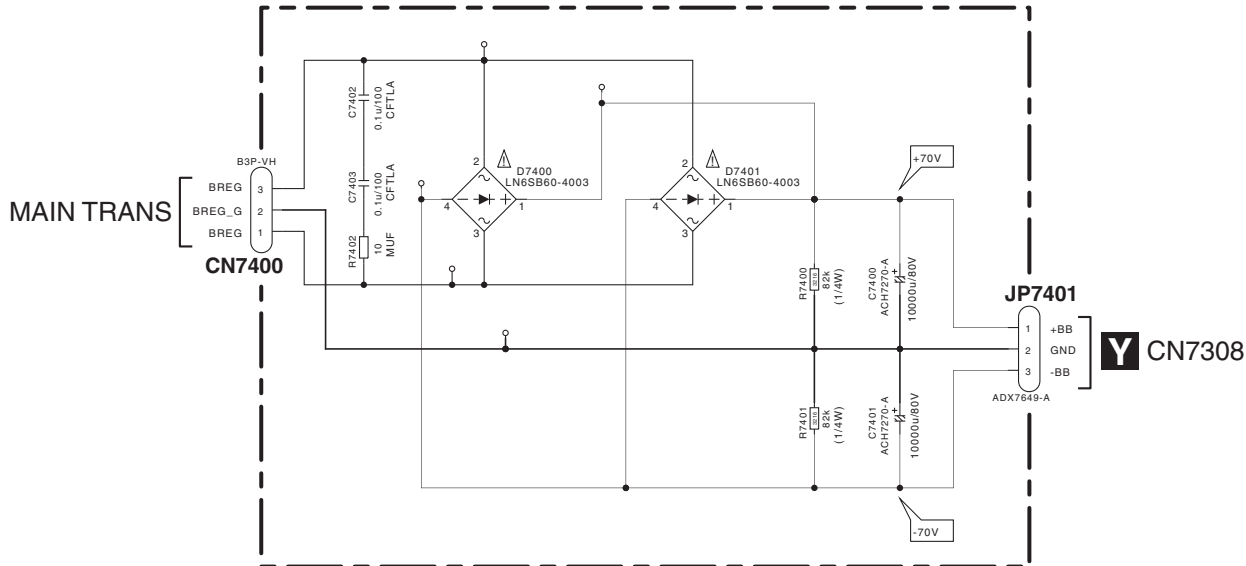


PROTECTION DETECT		
	Normal	Detect
BERR	Hi	Low
BTEMP	Low	Hi

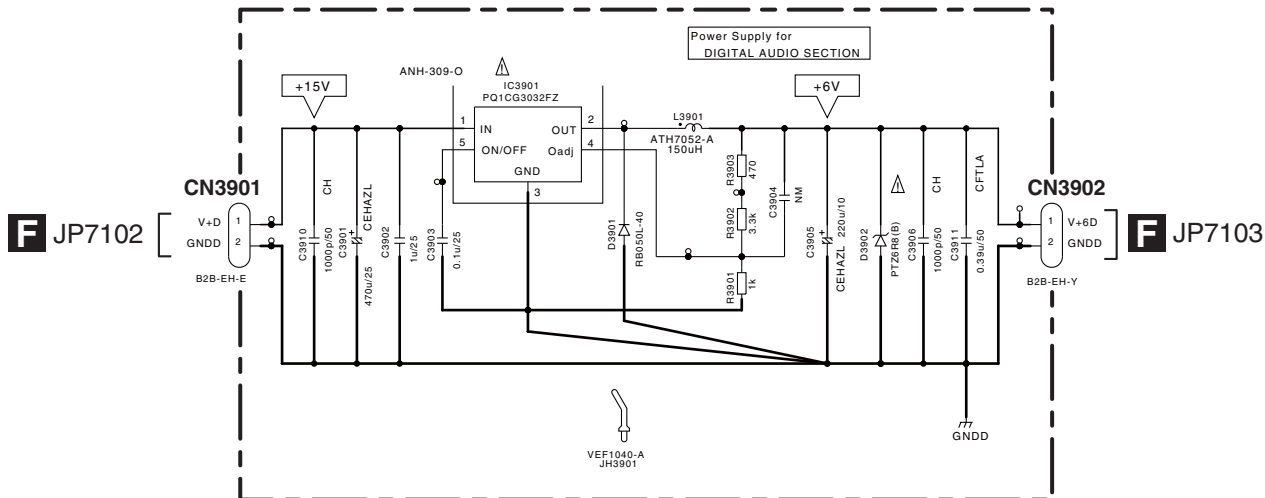


10.30 B DIODE, DCDC, and HDMI RECT ASSYS

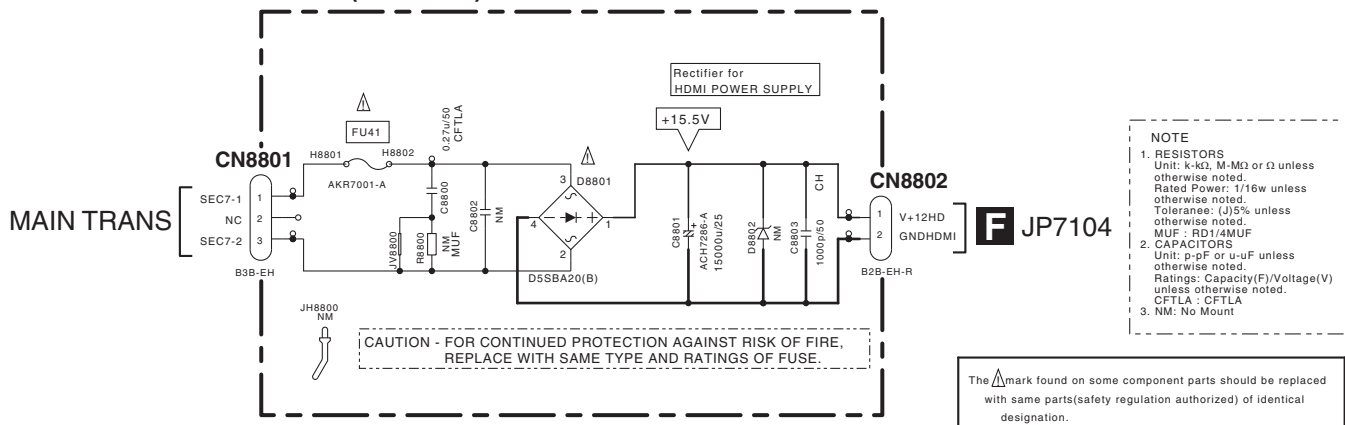
X B DIODE ASSY (AWX9171)



Z DCDC ASSY (AWX9138)



AA HDMI RECT ASSY (AWX9156)



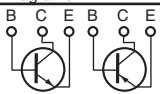
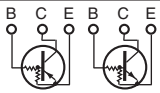
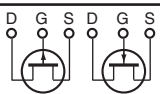
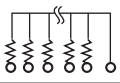
X Z AA

X Z AA

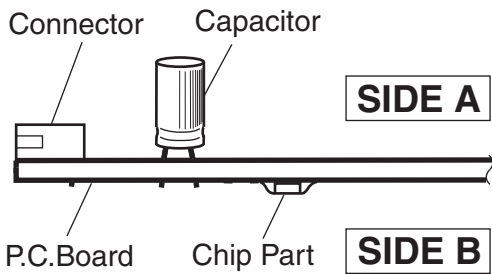
11. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



SIDE A

A AUDIO ASSY

AUDIO ASS'Y
AWX9139

AWX9206
AWX9207
AWX9208
AWX

PC

TO TUNER

SIDE B

A

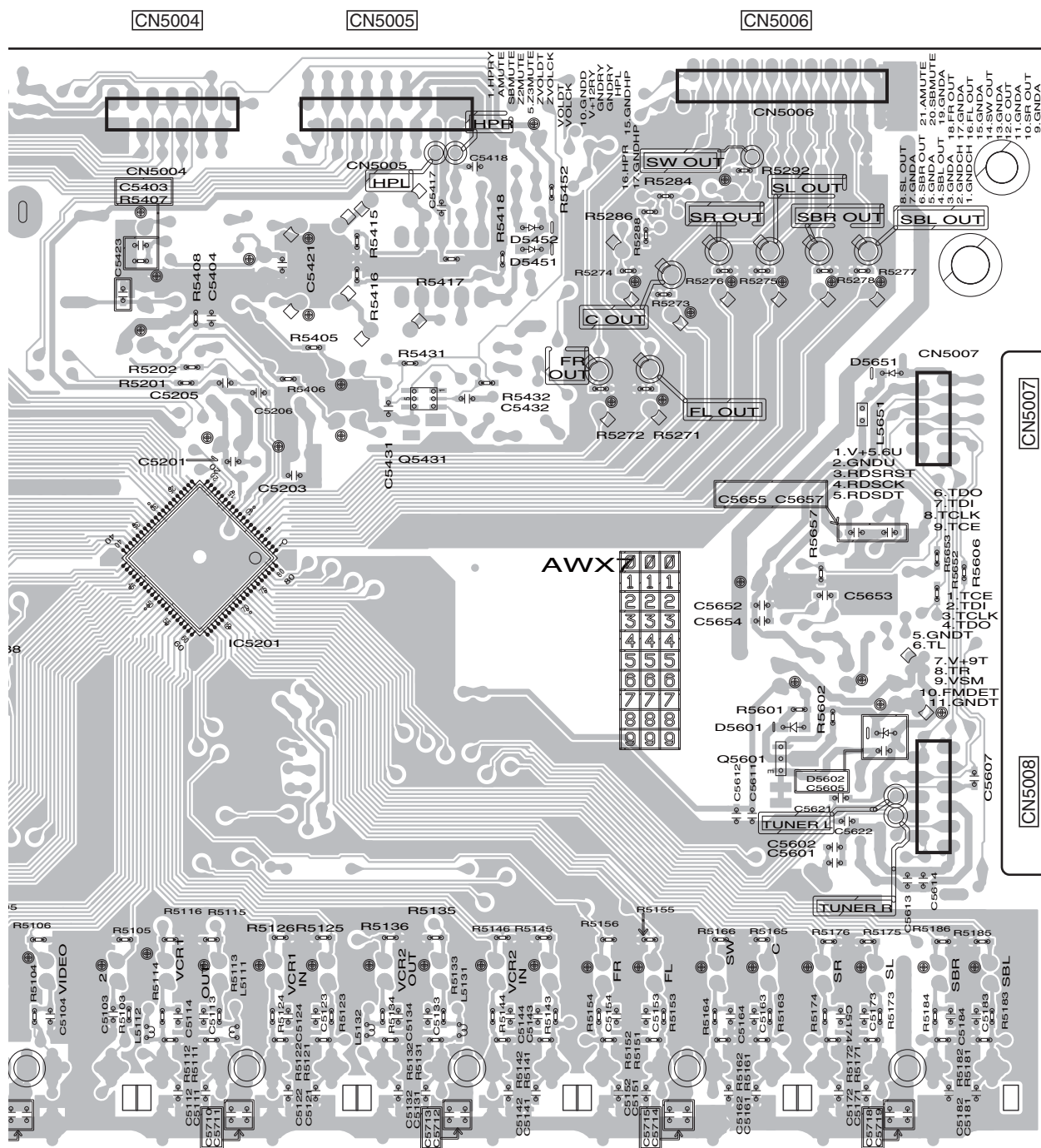
B

C

D

F

F



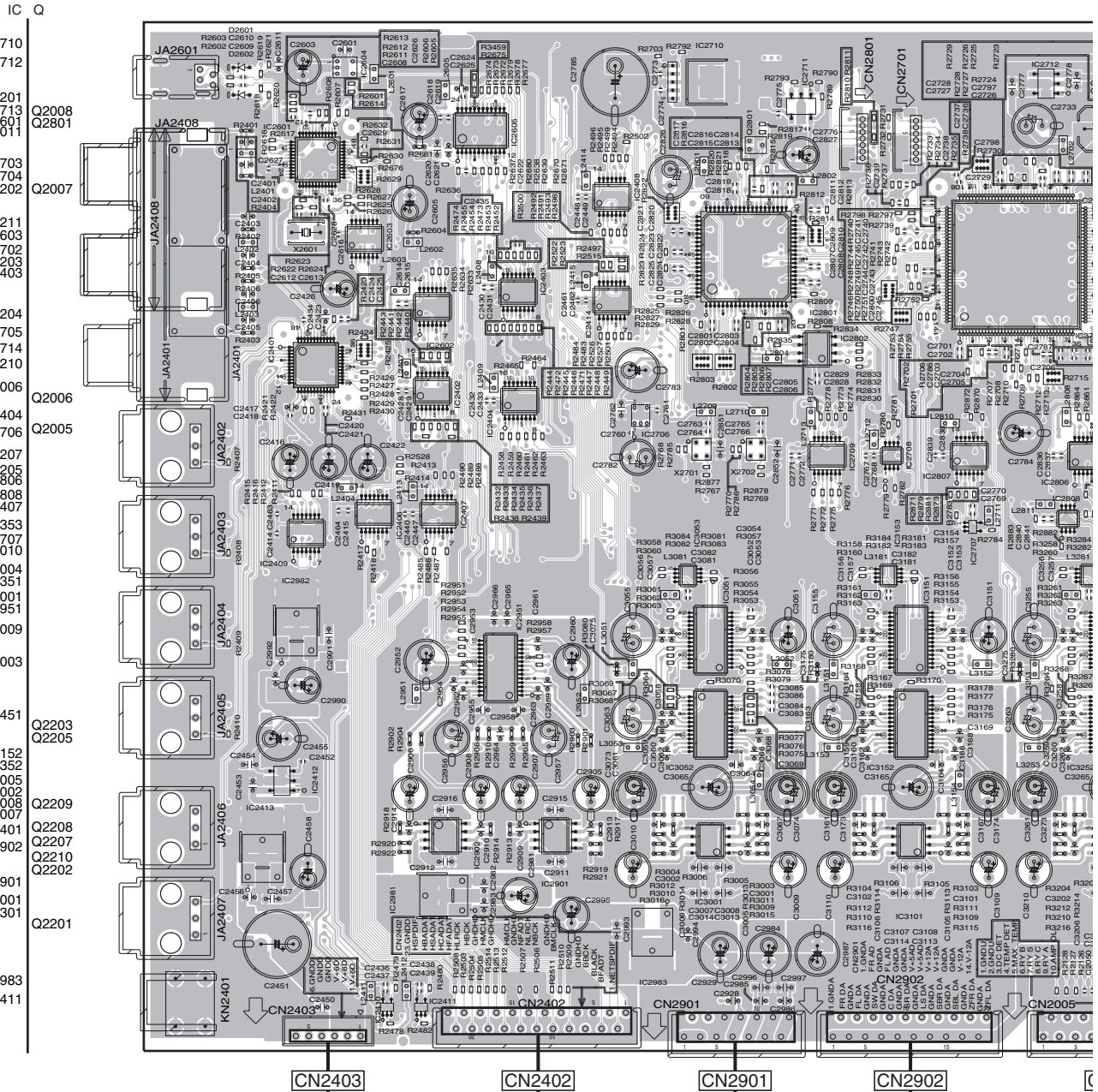
(ANP7650-D)

11.2 D-MOTHER ASSY

SIDE A

B D-MOTHER ASSY

IC Q



F CN7009

F CN7008

F CN7007

F CN7006

F

B

A



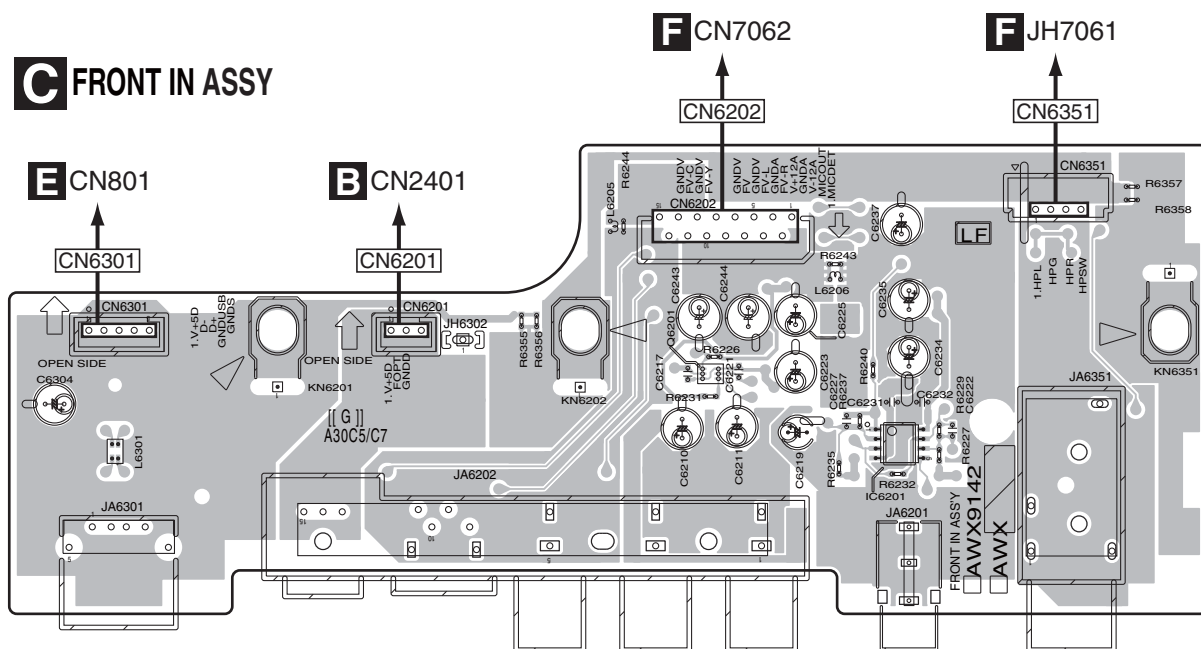
D

E

F

159

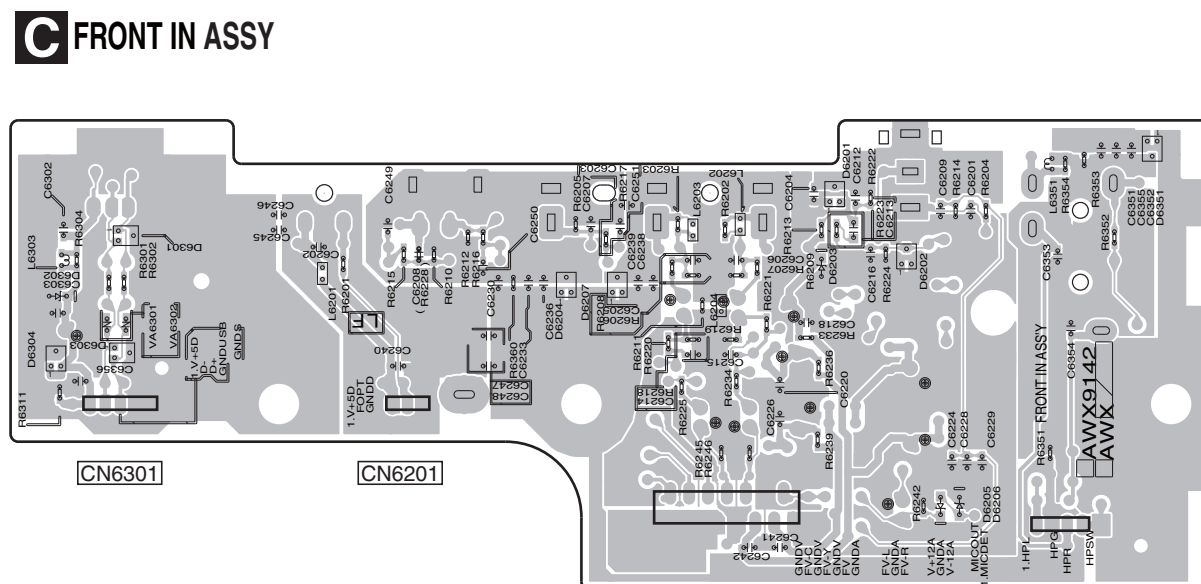
SC-LX81

SIDE A**SIDE A**

(ANP7651-B)

SIDE B

SIDE B



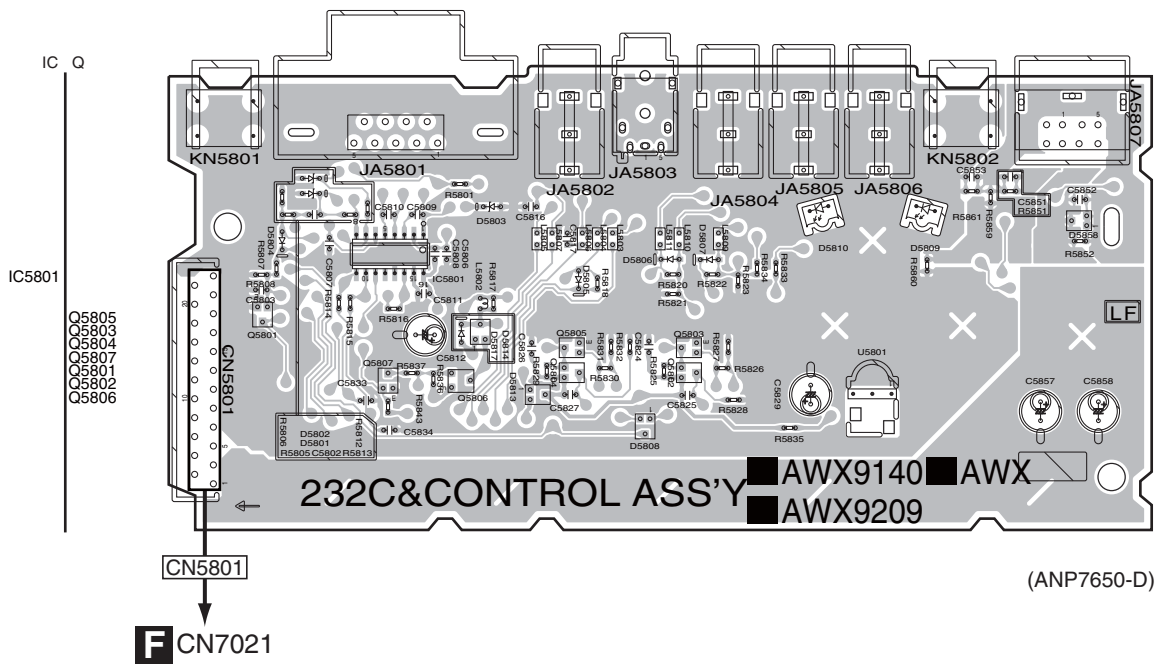
351
(ANP7651-B)

11.4 232C & CONTROL ASSY

SIDE A

SIDE A

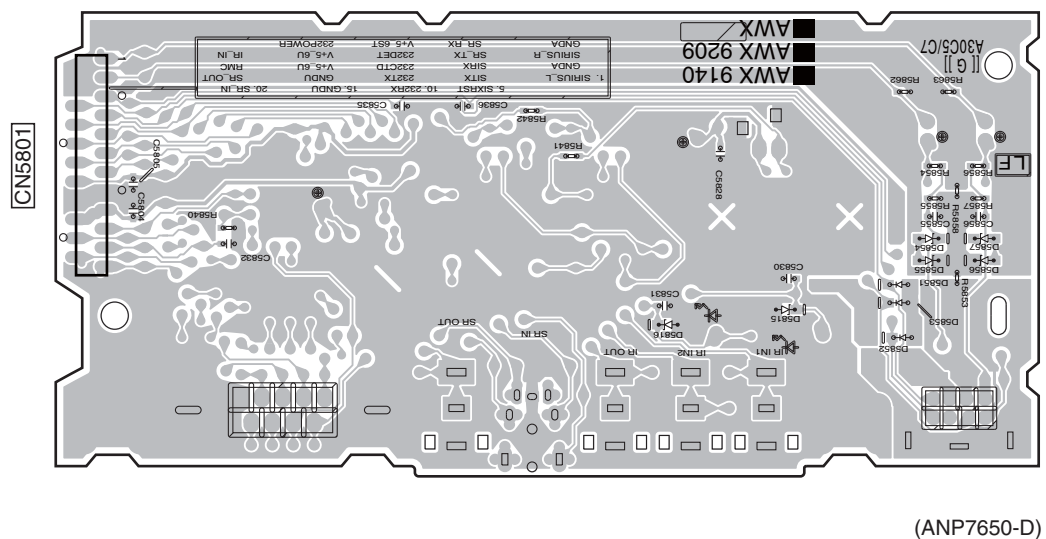
D 232C & CONTROL ASSY



SIDE B

SIDE B

D 232C & CONTROL ASSY



D

D

11.5 HDMI NETWORK ASSY

SIDE A

HDMI NETWORK ASSY

CN6004

CN6009

CN

CN502

CN601

CN

CN2003

CN1701

IC Q

IC881
IC1871
IC701
IC1861

IC791

IC1701
IC401
IC402

IC801

IC1703

IC1151

IC1901

IC471

IC1401

IC1903

IC101

IC1402

IC1051

IC1001

IC301

IC207

IC206

IC203

IC202

IC1301

IC504

IC281

IC503

IC1081

IC252

IC1082

IC351

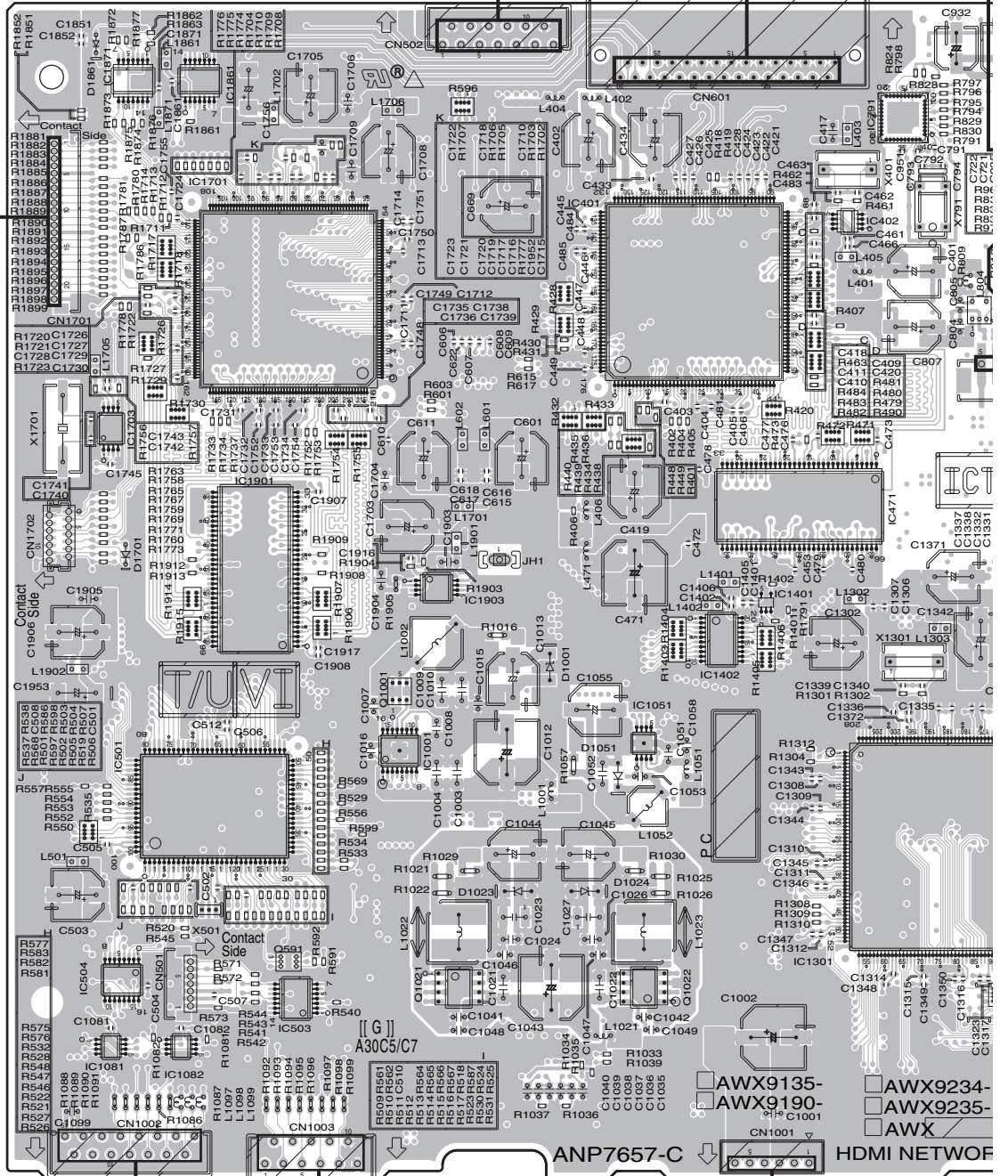
Q1001

Q391

Q591

Q1021 Q1022

Q1281



CN1002

CN1003

CN1001

CN7011

CN7012

CN7013

E

SIDE A

A

B

C

D

F

F

E

165

SIDE B

E HDMI NETWORK ASSY

IC Q

IC21	
	Q1831 Q1821
	Q1801 Q1811

IC11	Q651	Q671
	Q641	

C1702	
IC891	

IC31	Q631	Q681
	Q661	

Q702	
Q701	

C1951

IC601

Q1101

IC921	Q1201
-------	-------

IC911
C1202[illegible]

C1383	
C1404	

IC472	Q1102
	Q1202

C1403	
C1203	

IC452

C1384
IC502

C1071	Q1103
C1382	

C1902	Q1203
C1207	Q301

C1204 C2000

IC505	Q302
C1381	

[illegible]

C1072	Q1104
	Q1204

IC205	Q351
IC208	

IC302 Q201

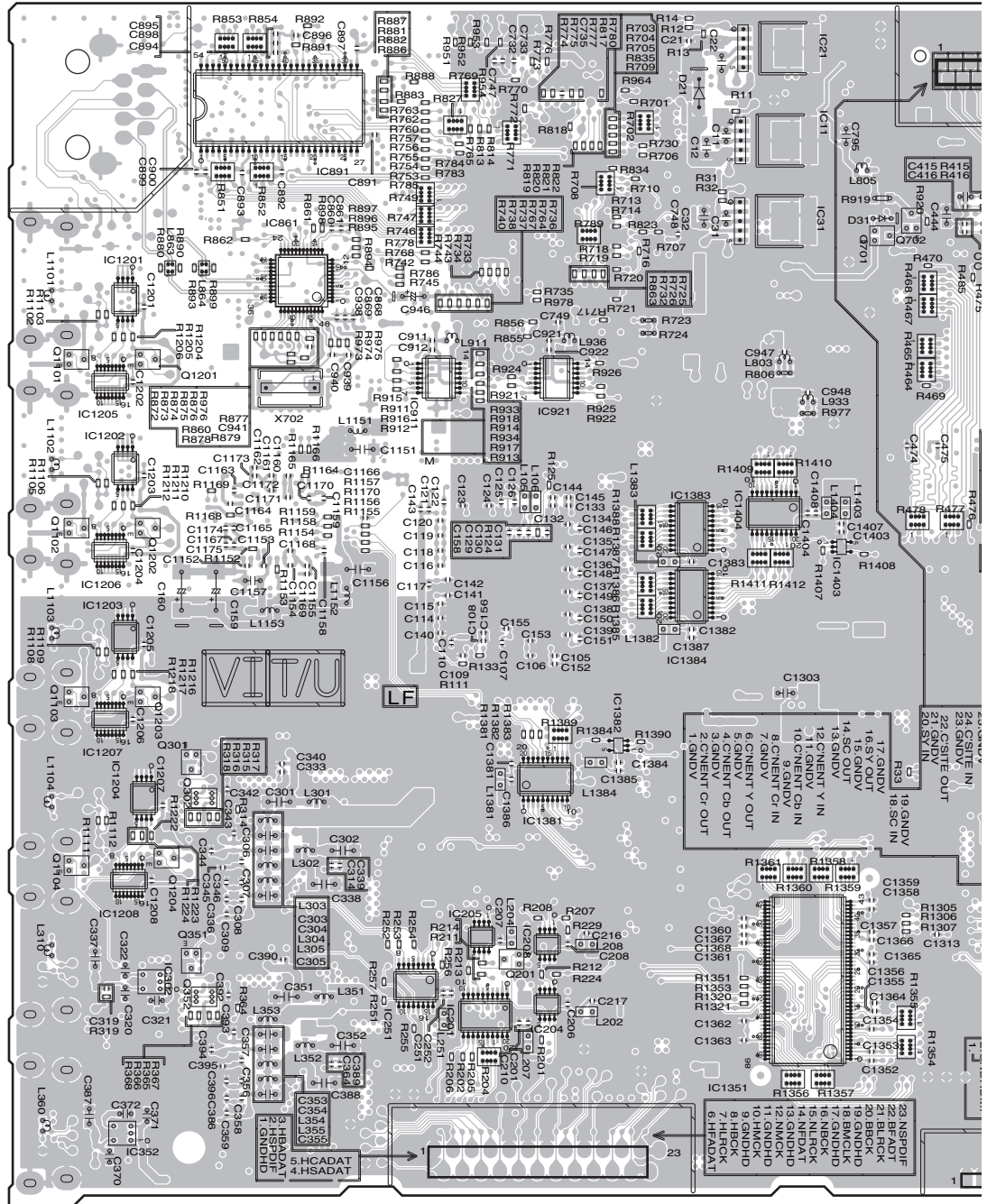
IC352	Q352
IC201	

IC204

C1021	
C1351	

[illegible]

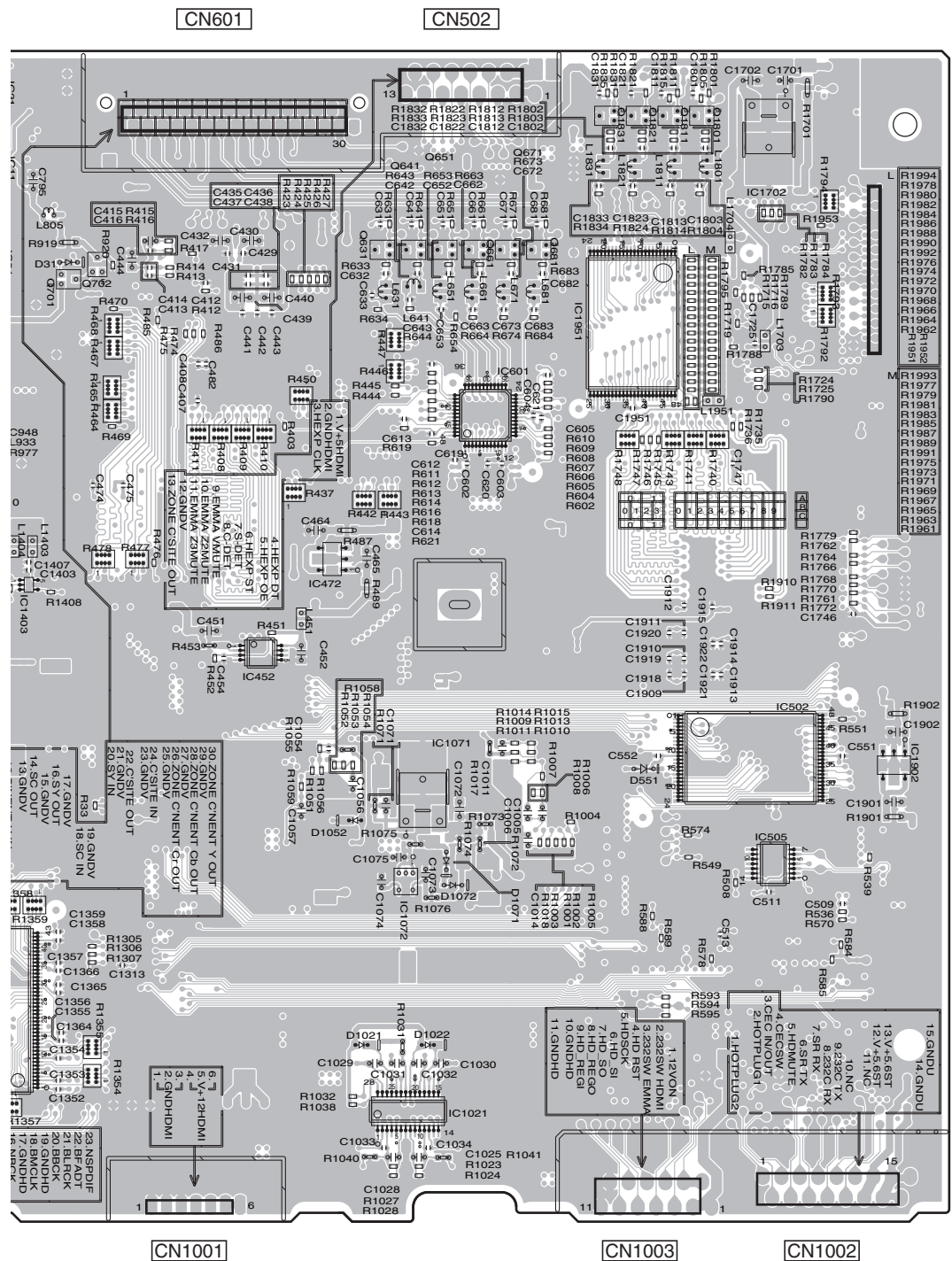
IC352



CN201

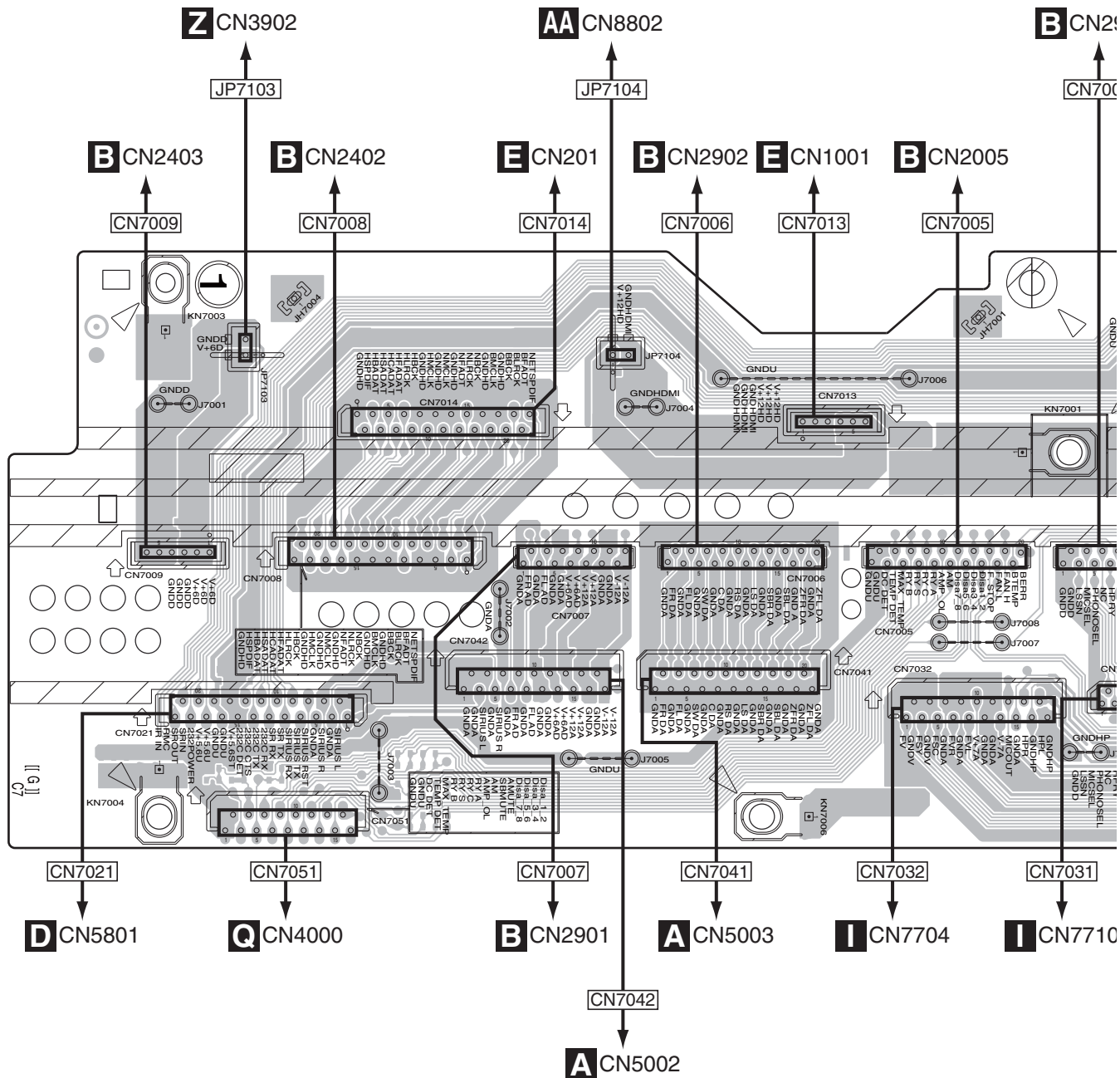
⌈C

SC-LX81



(ANP7657-C)

SIDE A

F INTERFACE ASSY

SIDE B

F INTERFACE ASSY

CN7003

CN7004

CN7011

CN7012

CN7101

CN7001

CN7062

CN7002

CN7031

C

SC-LX81

SIDE A**T** CN8711

CN6008

IC Q

IC6007

IC6002

IC6005

IC6001
IC6009

IC6015

IC6012

IC6004

IC6010

IC6014

IC6006

CN6C

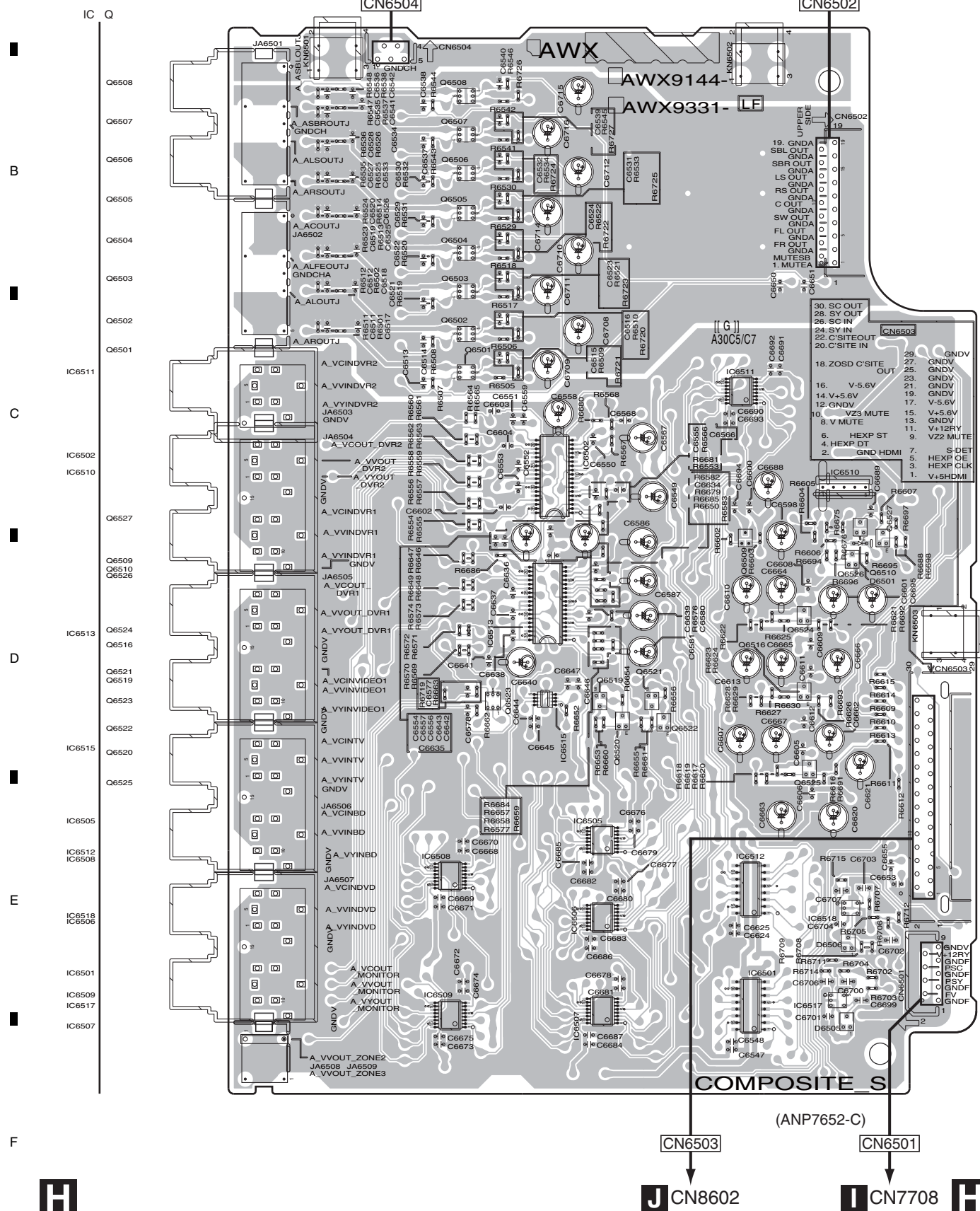


SC-LX81

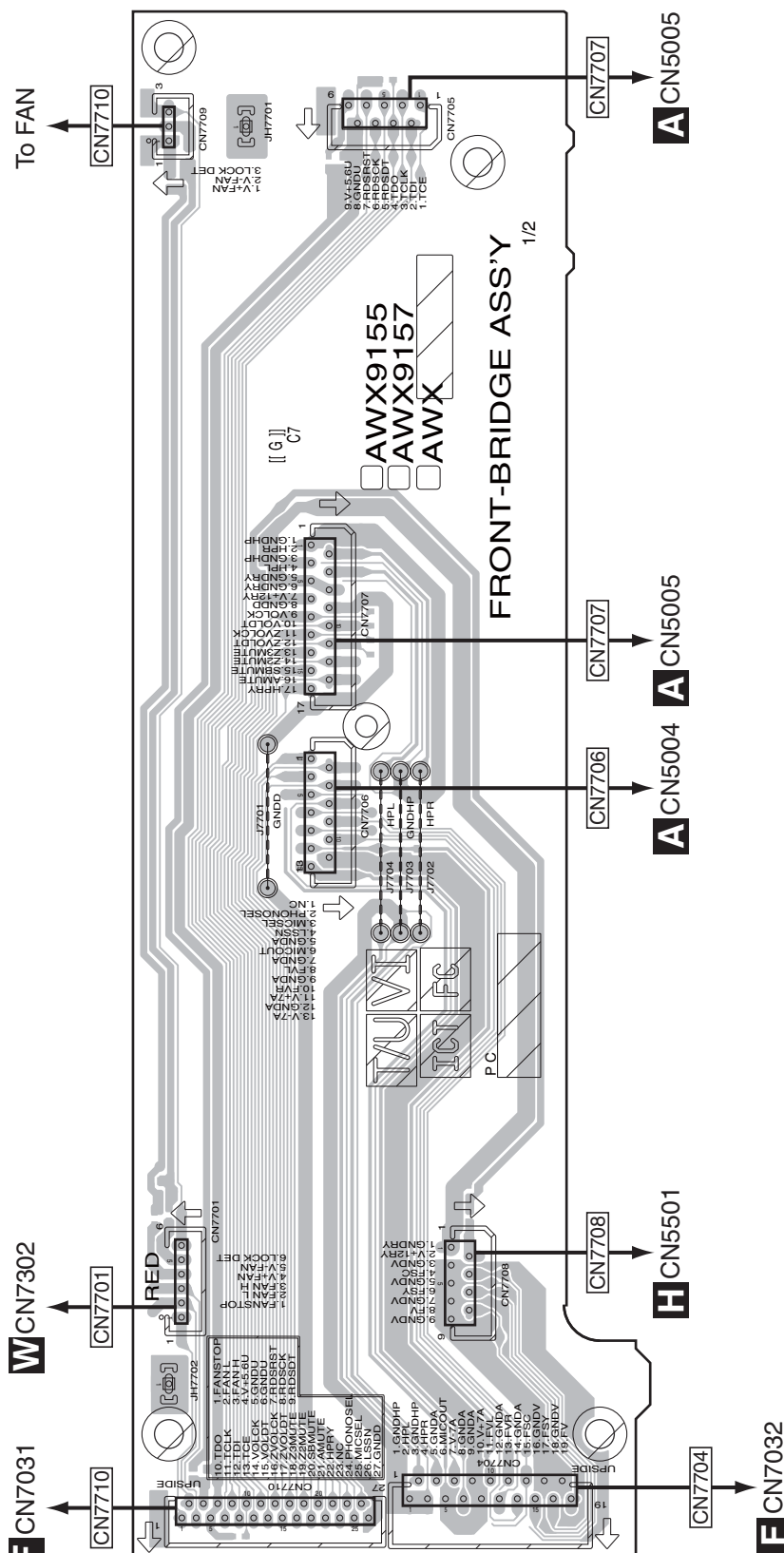
SIDE A

H COMPOSITE S ASSY

SIDE A



FRONT BRIDGE ASSY

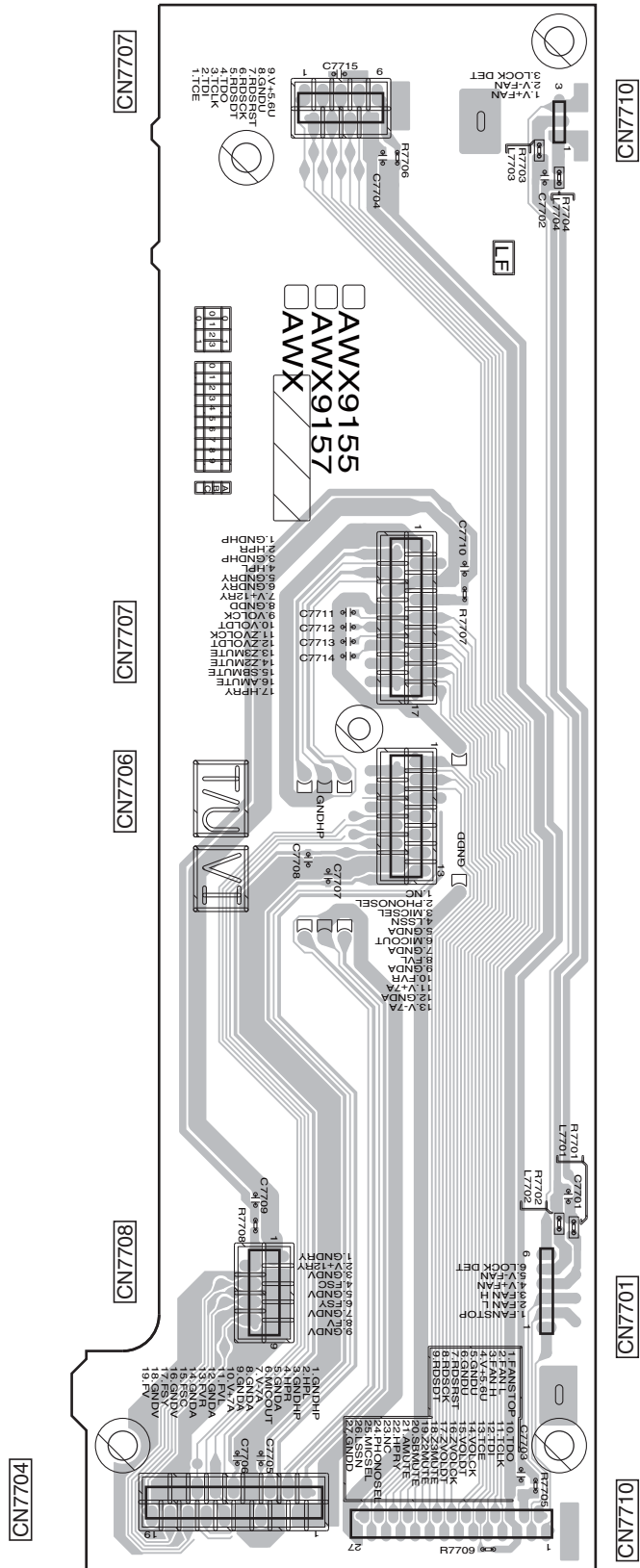


(ANP7654-B)

SIDE B

SIDE B

FRONT BRIDGE ASSY



(ANP7654-B)

SC-LX81

A

Q

[

E

F



SIDE B

K DISPLAY ASSY

A

B

C

D

IC Q

Q8009

IC8201

Q8010

IC8001

Q8012

Q8004

IC8004

Q8002

Q8003

Q8007

IC8003

Q8001

Q8005

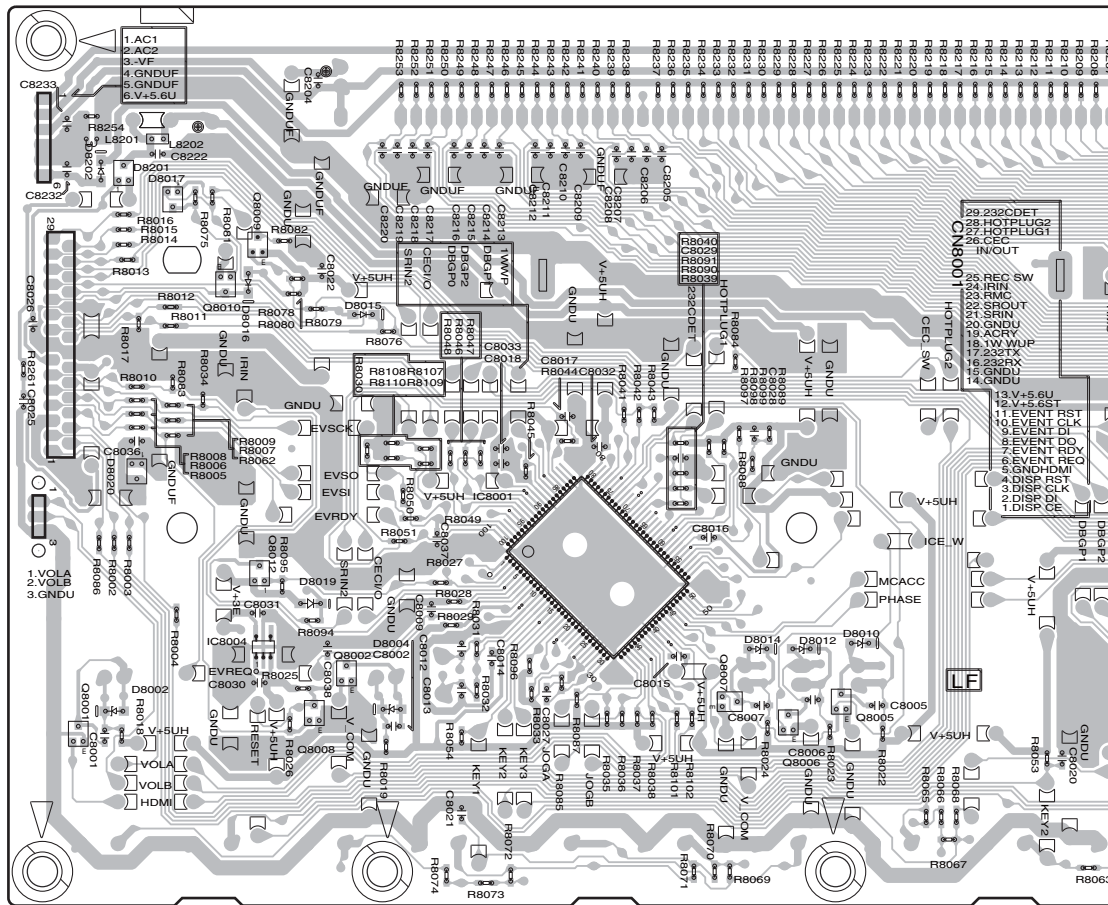
Q8008

Q8006

JH8201

CN8001

JH8001



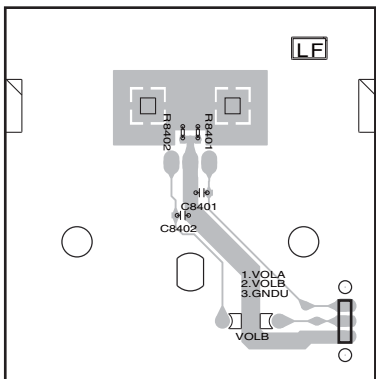
E

F

IC Q

Q8501

L VOL ASSY



JH8401

(ANP7655-B)

K M L

SIDE B

A

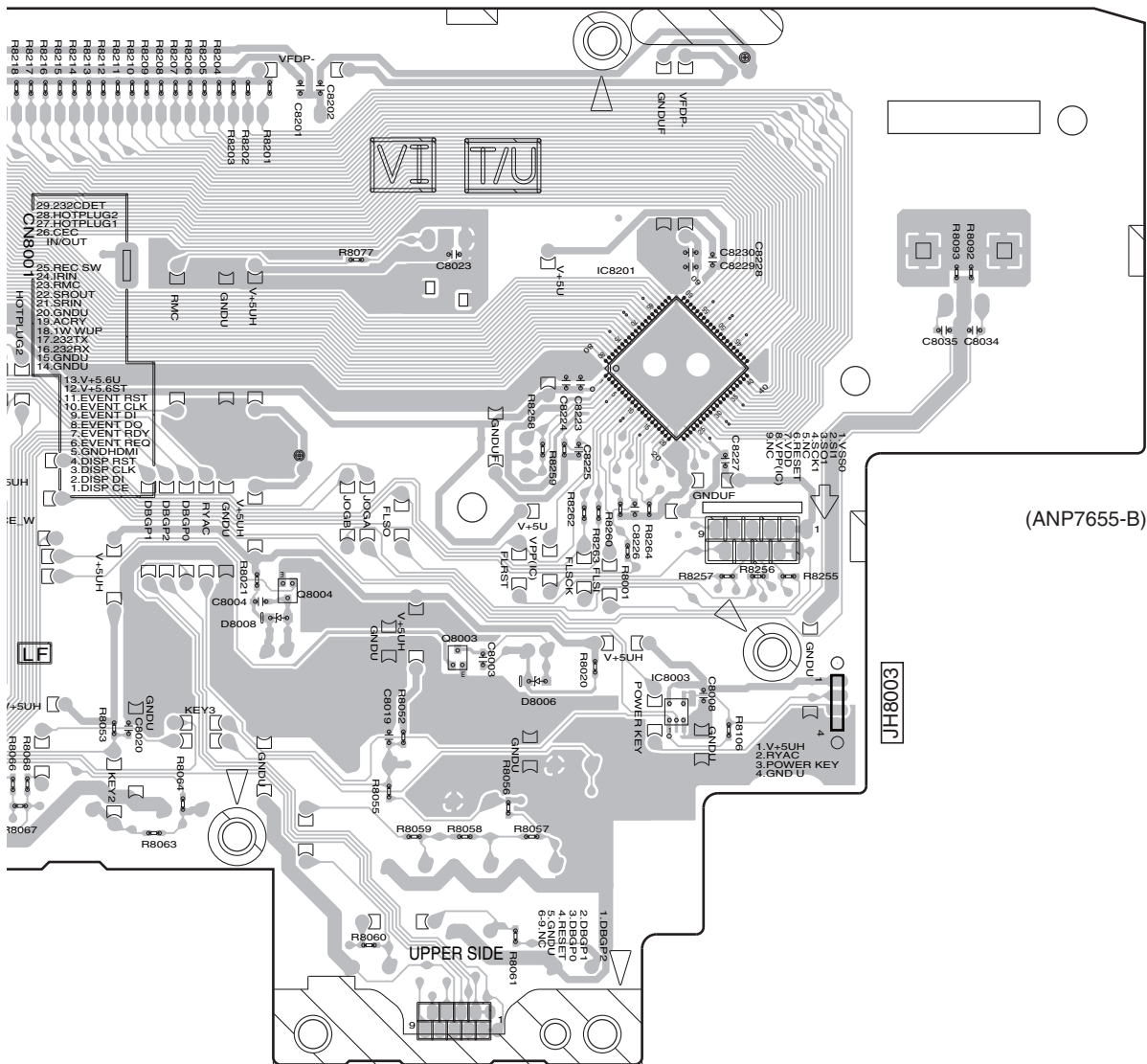
B

C

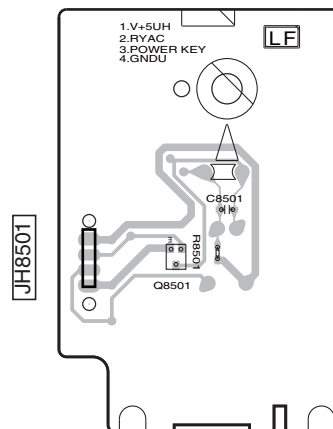
D

E

F



M POWER SW ASSY



(ANP7655-B)

L M K

11.11 PRE BRIDGE, ICE BUFFER and ICE SHIELD ASSYS

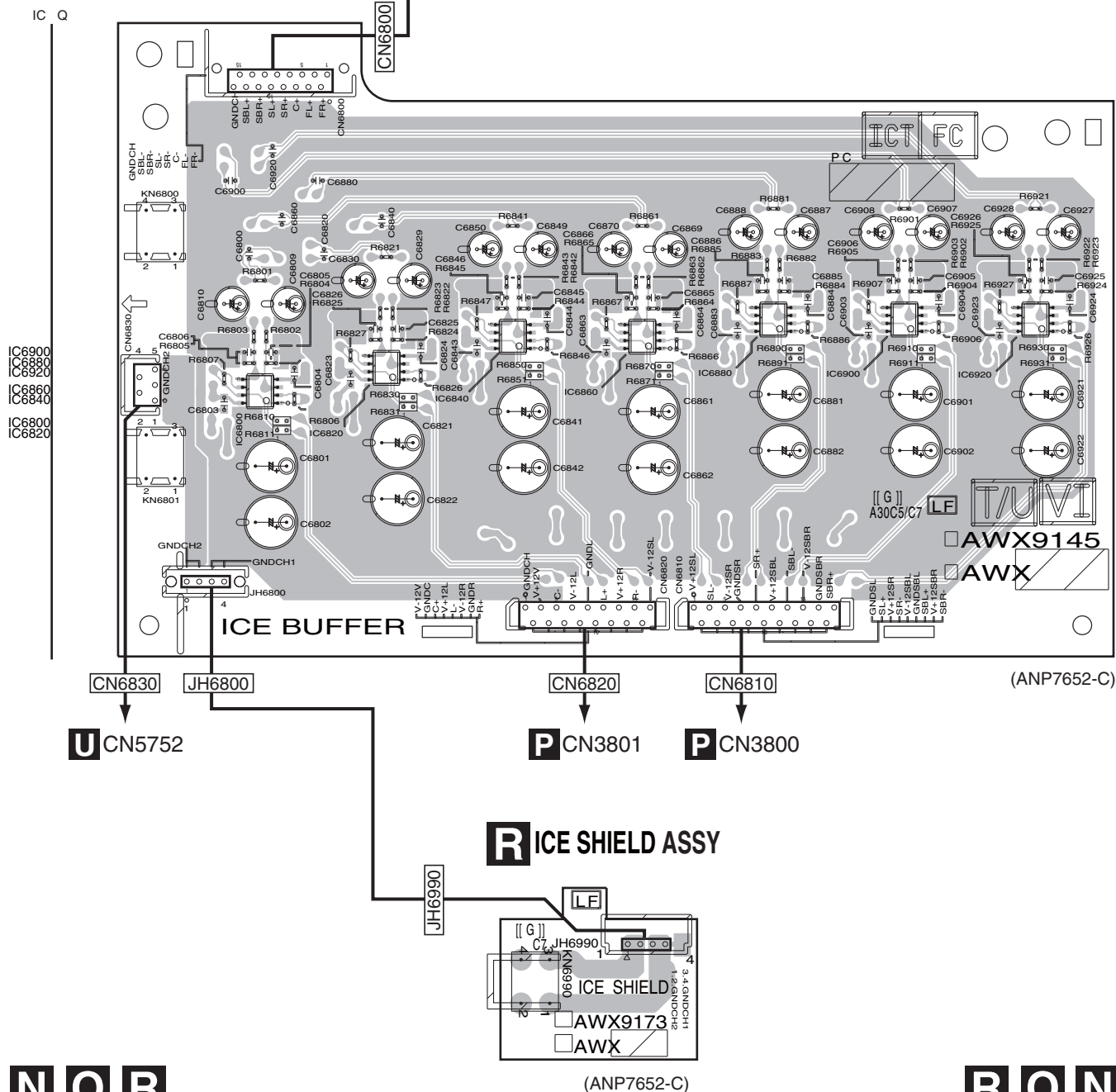
SIDE A

PRE BRIDGE ASSY

SIDE A

ICE BUFFER ASSY

ICE SHIELD ASSY



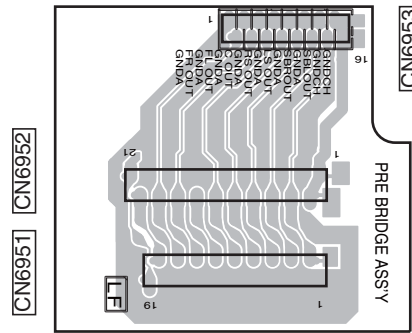
NOR

RON

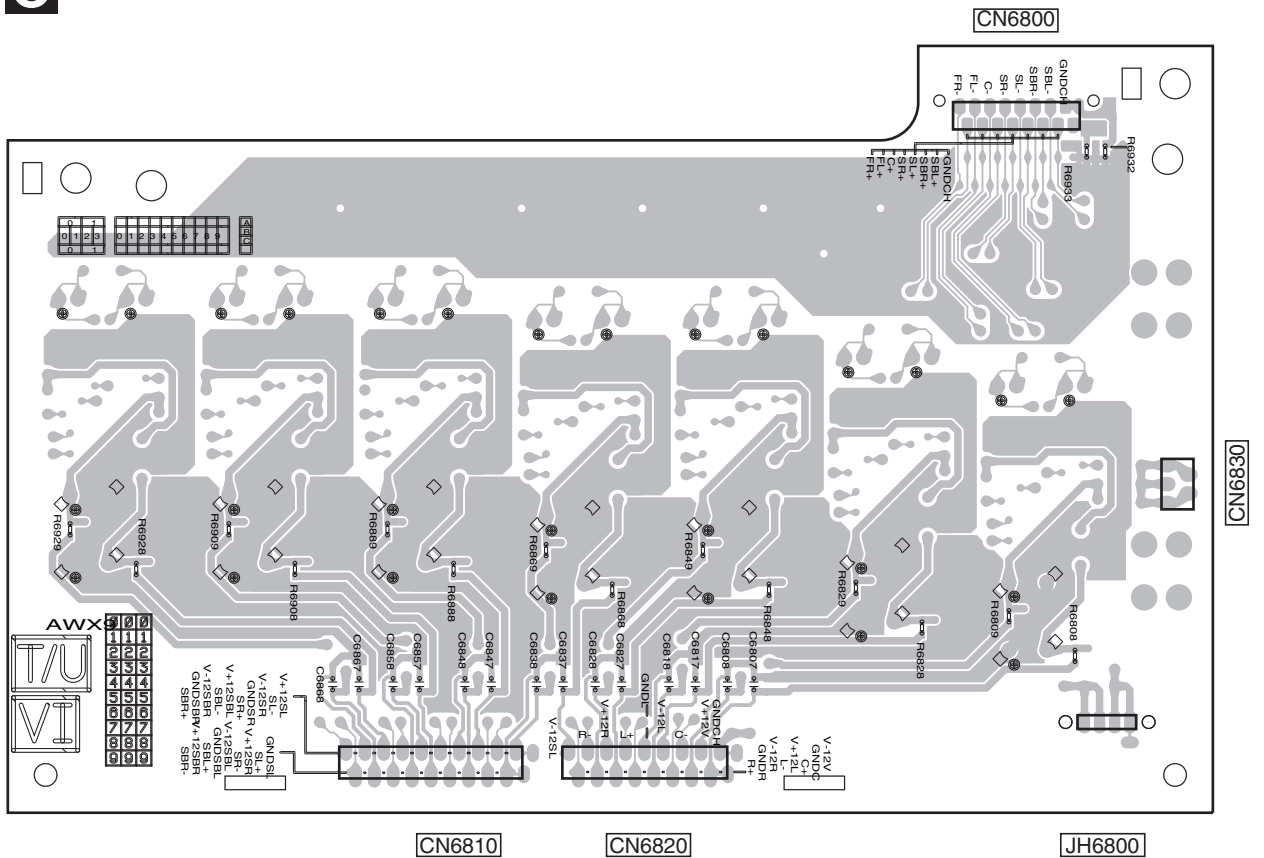
SIDE B

N PRE BRIDGE ASSY

SIDE B

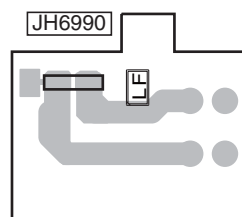


(ANP7652-C)

ICE BUFFER ASSY

(ANP7652-C)

RICE SHIELD ASSY



(ANP7652-C)

N O R

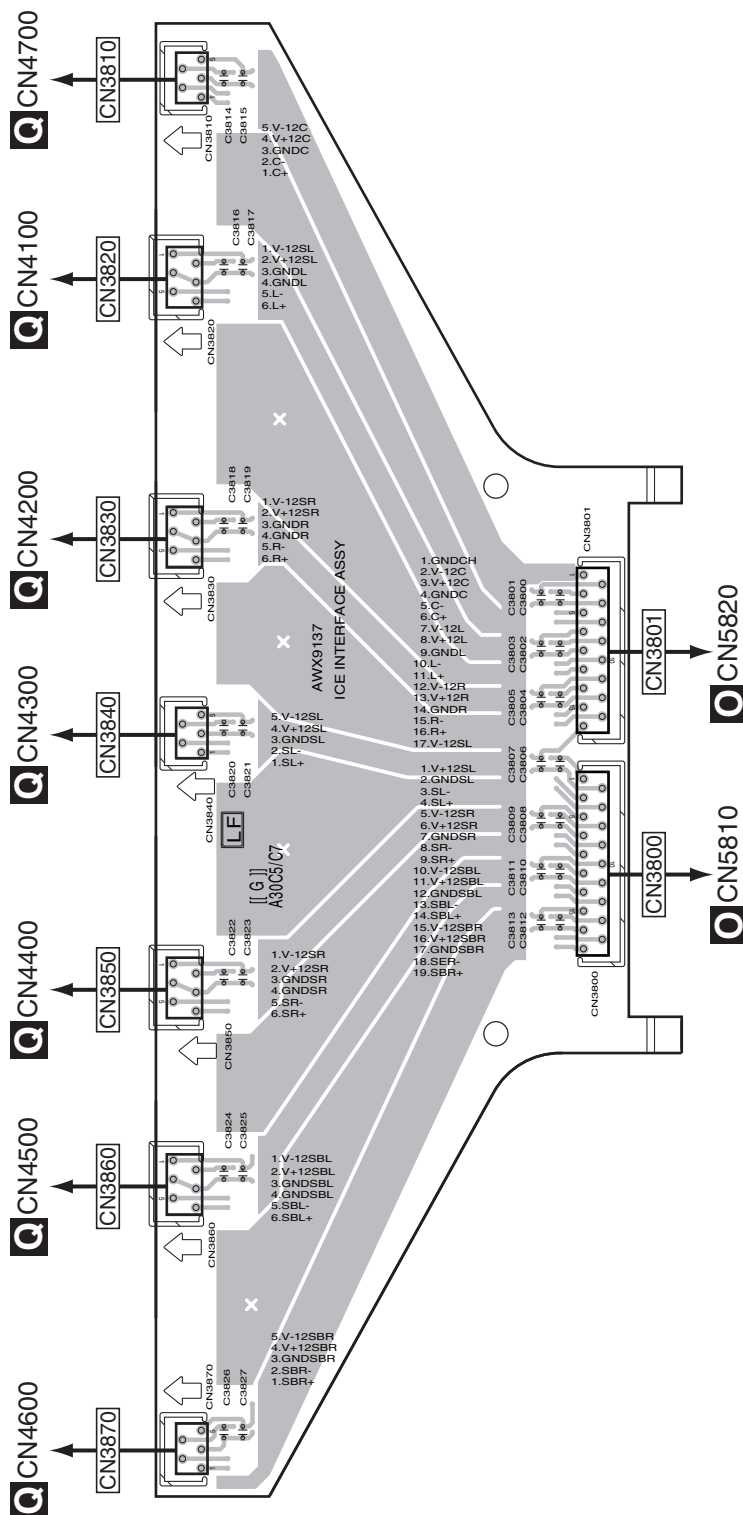
RON

11.12 ICE INTERFACE ASSY

SIDE A

SIDE A

ICE INTERFACE ASSY



(ANP7649-B)

SC-LX81

P

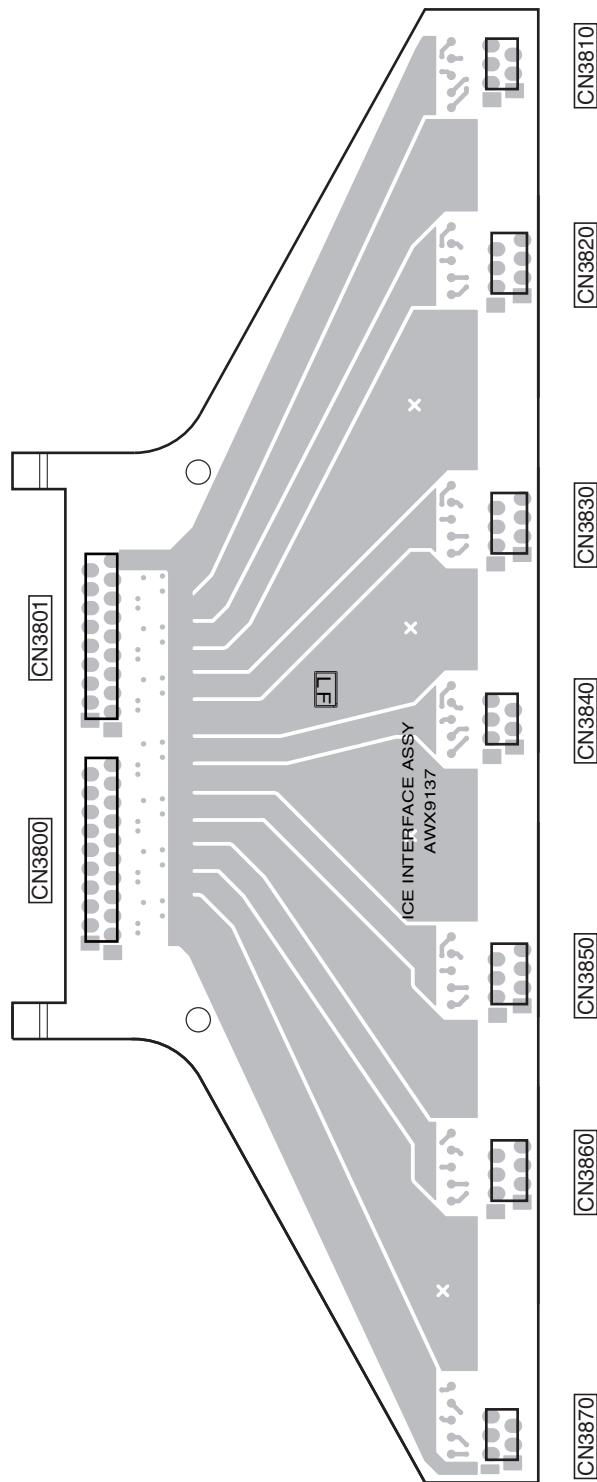
186

P

SIDE B

SIDE B

P ICE INTERFACE ASSY



(ANP7649-B)

P

P

SC-LX81

187

11.13 ICEPOWER AMP ASSY

SIDE A

Q ICEPOWER AMP ASSY

A

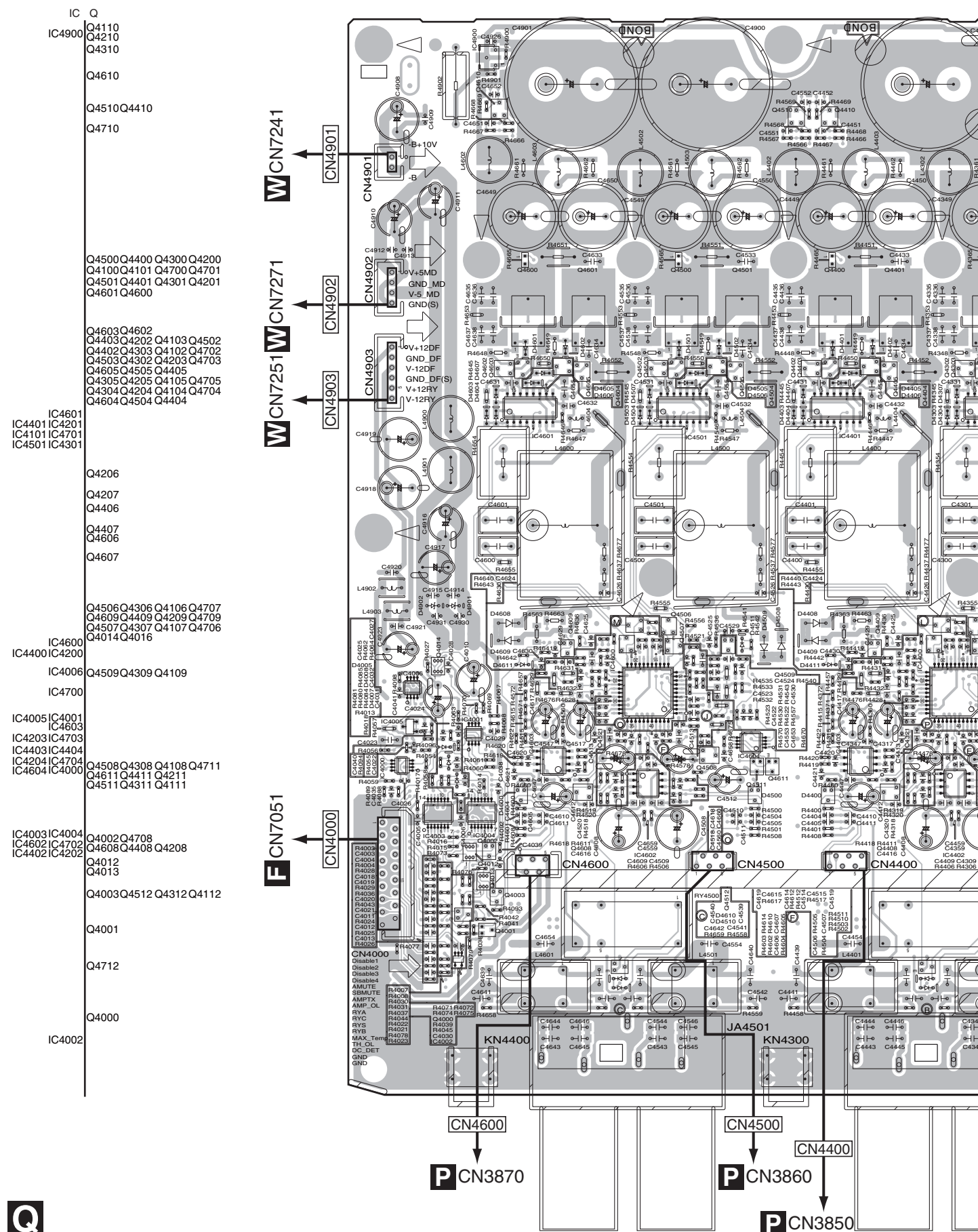
B

C

D

E

F



A



C

D

E

F

Q

SIDE B

Q ICEPOWER AMP ASSY

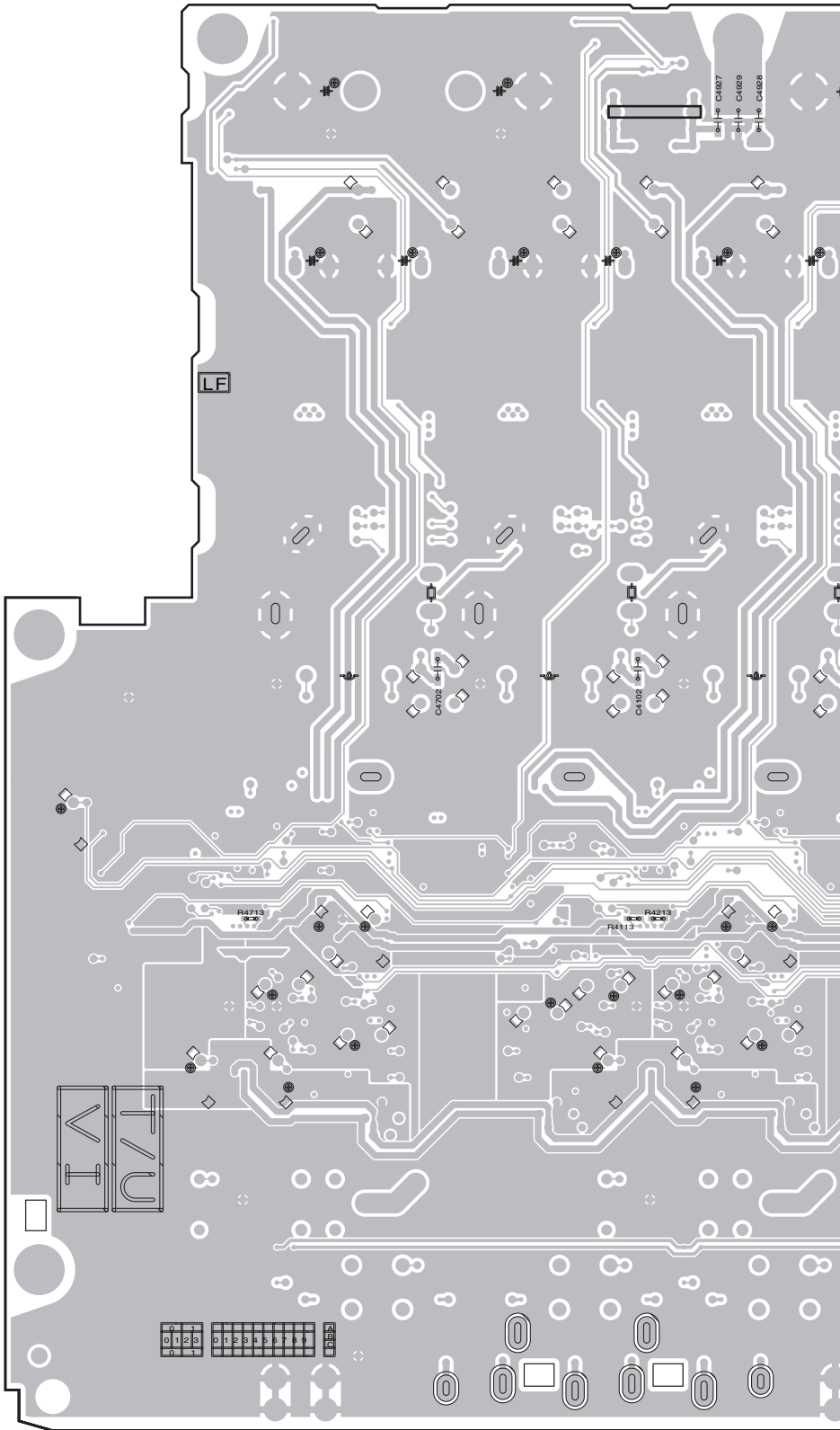
CN4900

IC Q

Q4015

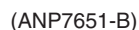
Q4004
Q4007
Q4006
Q4009 Q4011Q4005
Q4008

Q4010

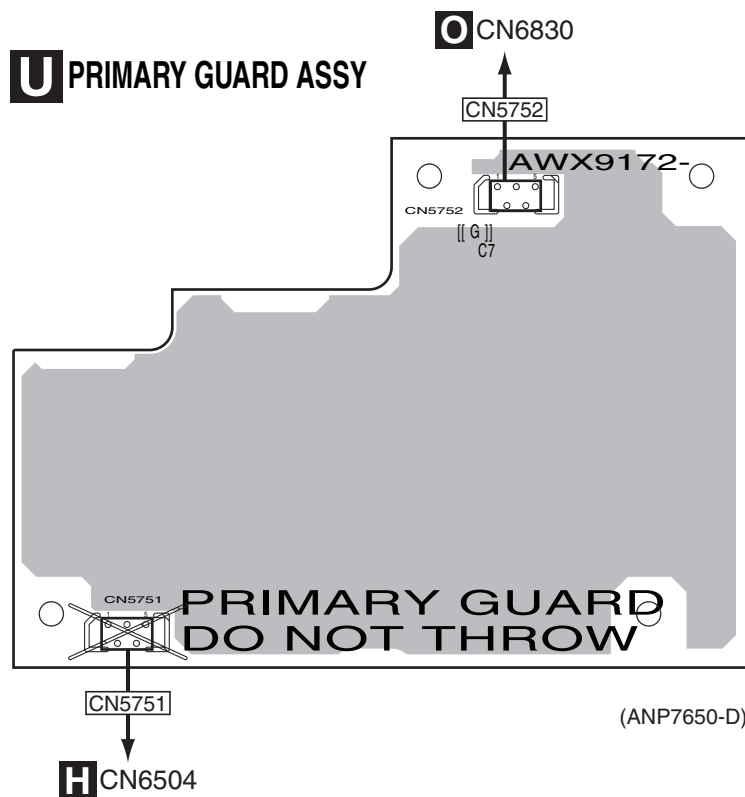
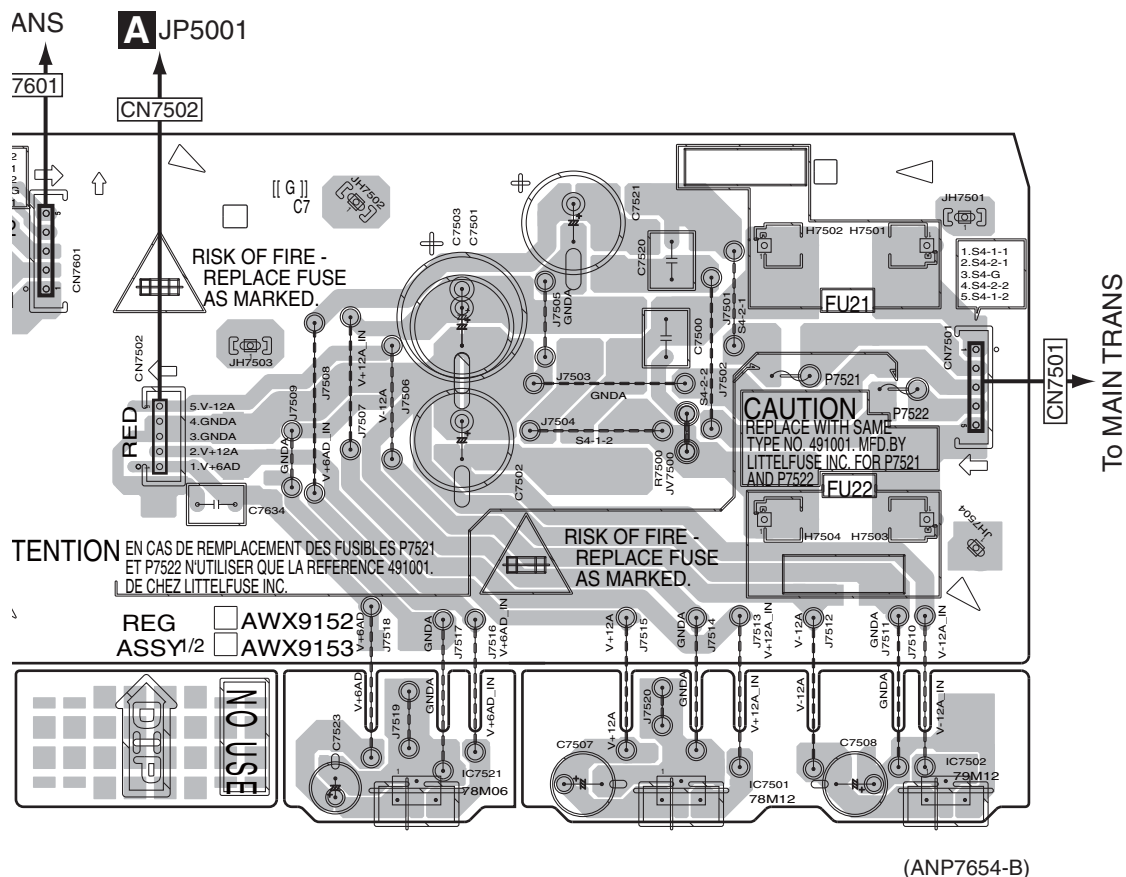


0 1 2 3 4 5 6 7 8 9
0 1 2 3 4 5 6 7 8 9

SIDE A

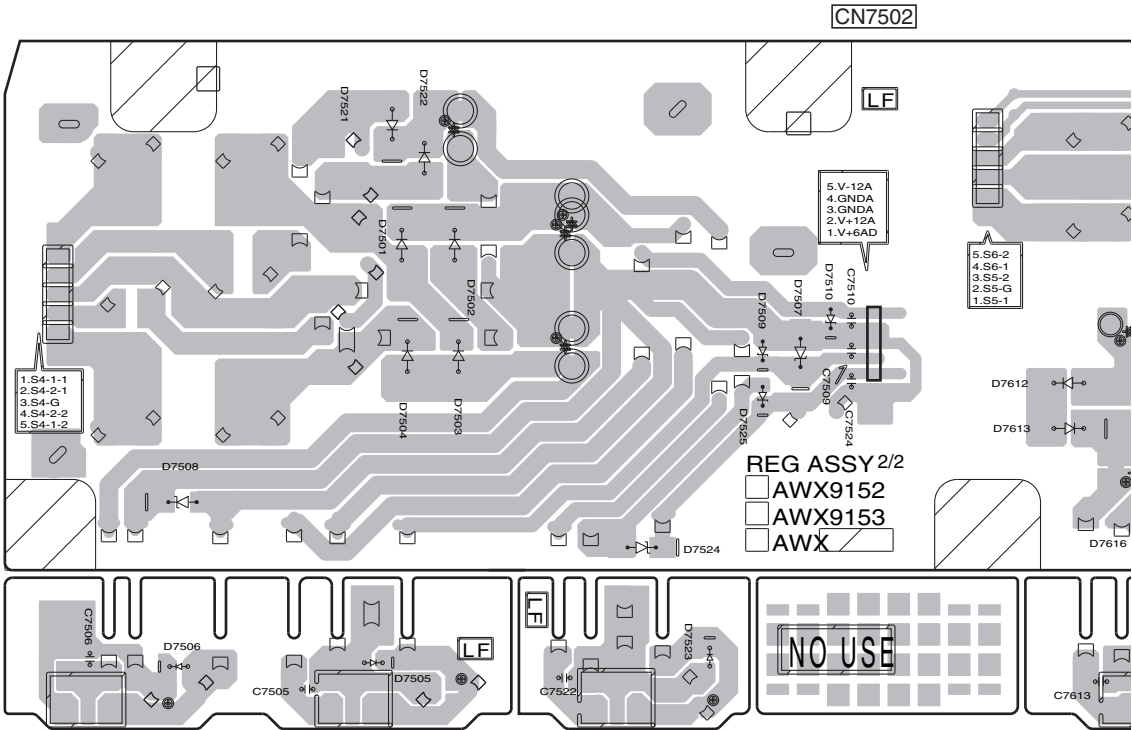


SIDE A

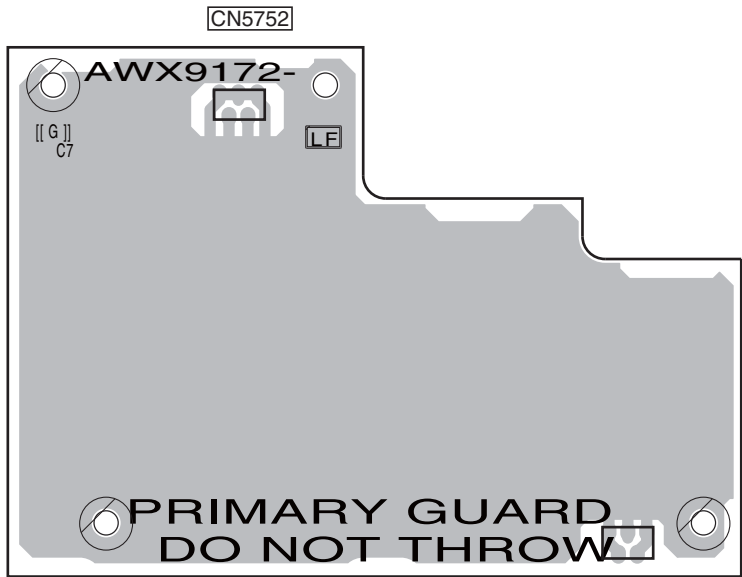


SIDE B

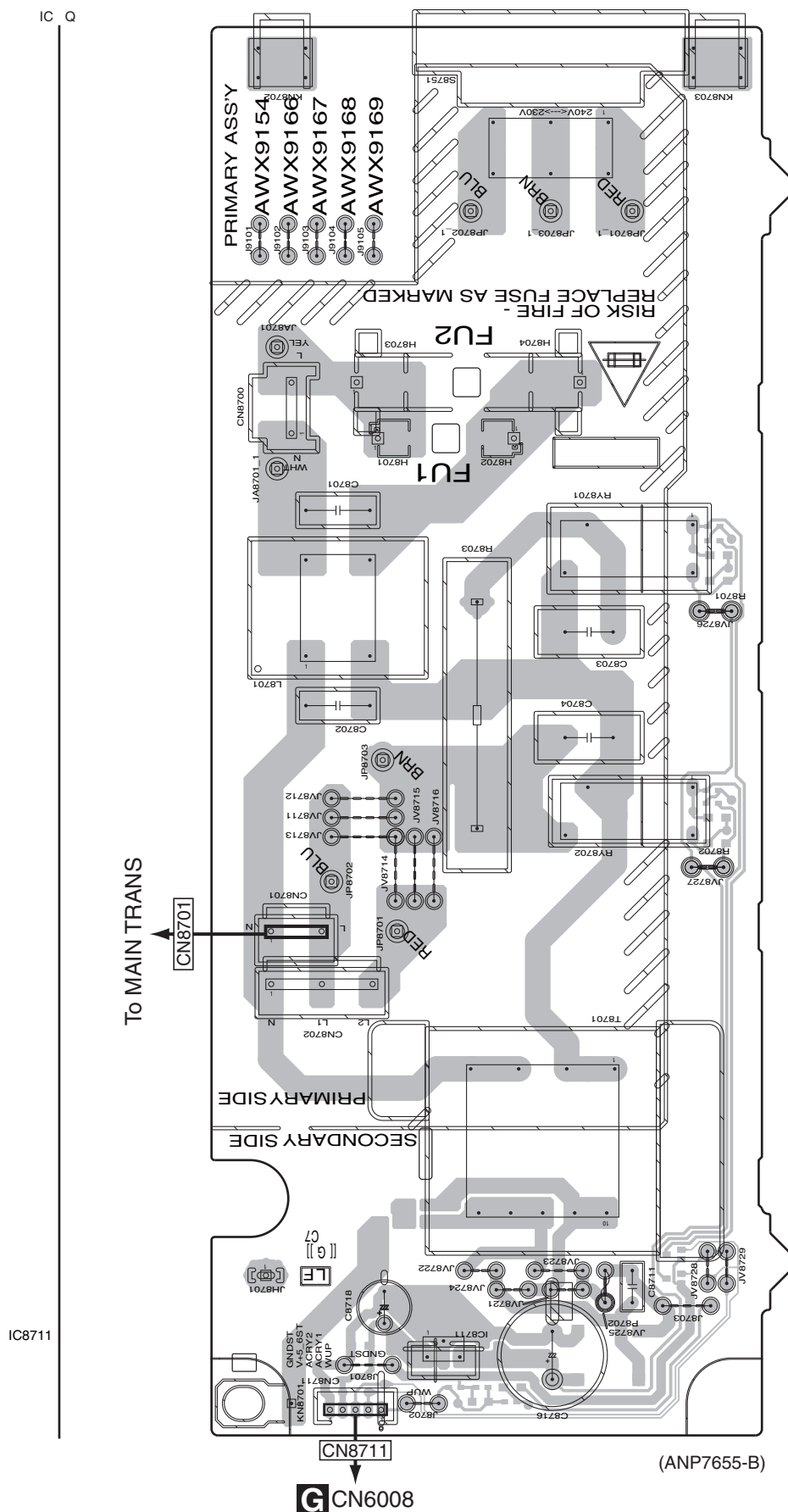
V REG ASSY



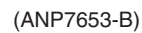
U PRIMARY GUARD ASSY



CN5751 (ANP7650-D)



SIDE A

SIDE A

Q CN4903

TO MAIN TRANS



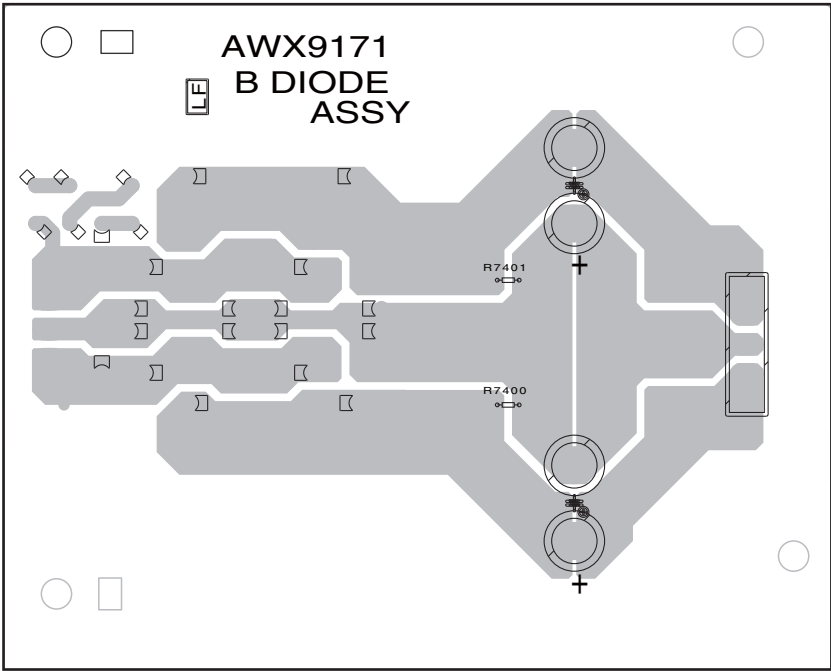
198

W

SC-LX81

X B DIODE ASSY

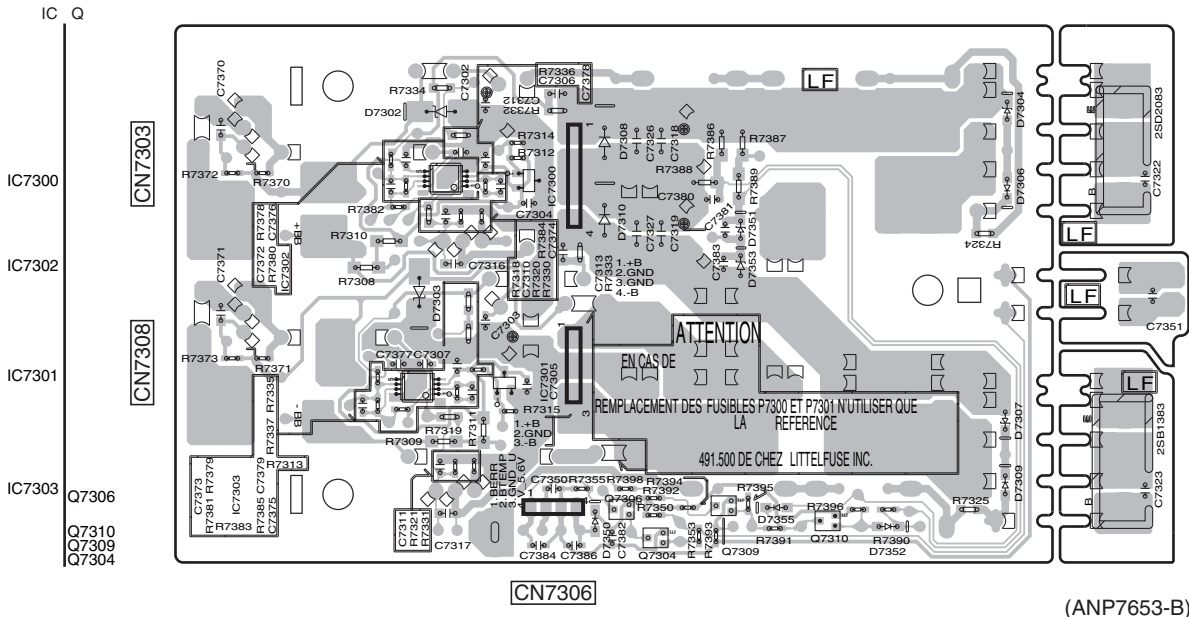
SIDE B



(ANP7653-B)

SIDE B

Y B REG ASSY



Y **X**

11.18 DCDC and HDMI RECT ASSYS

SIDE A

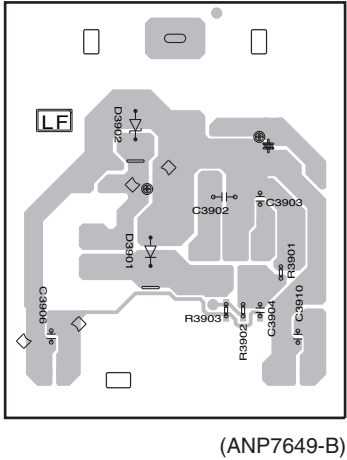
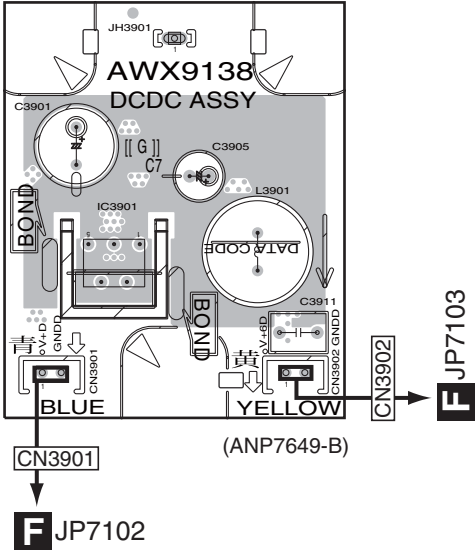
SIDE B

Z DCDC ASSY

Z DCDC ASSY

IC Q

IC3901

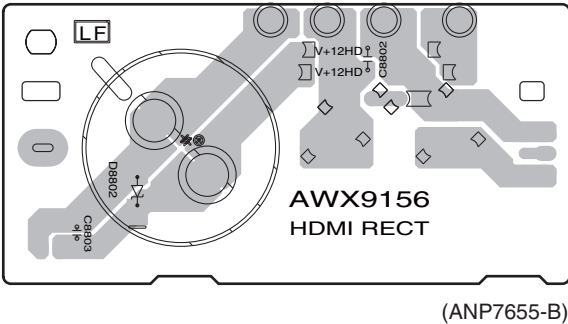
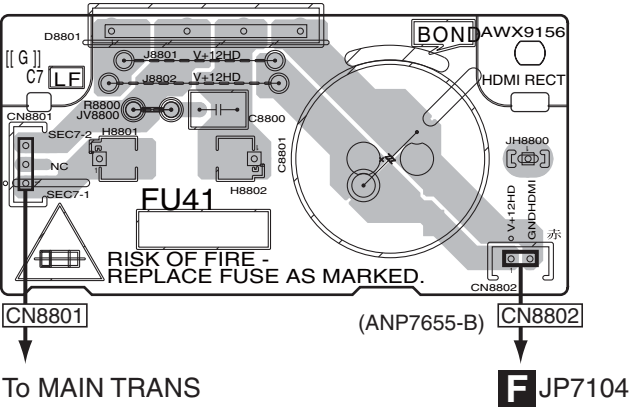


SIDE A

SIDE B

AA HDMI RECT ASSY

AA HDMI RECT ASSY



Z AA

AA Z

12. ELECTRICAL PARTS LIST

NOTES: ● Parts marked by “NSP” are generally unavailable because they are not in our Master Spare Parts List.

● The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47 k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω $\rightarrow$ 56×10^1 $\rightarrow$ 561.....RD1/4PU $\begin{bmatrix} 5 & 6 & 1 \end{bmatrix}$ J

47 k Ω $\rightarrow$ 47×10^3 $\rightarrow$ 473.....RD1/4PU $\begin{bmatrix} 4 & 7 & 3 \end{bmatrix}$ J

0.5 Ω $\rightarrow$ R50.....RN2H $\begin{bmatrix} R & 5 & 0 \end{bmatrix}$ K

1 Ω $\rightarrow$ 1R0.....RS1P $\begin{bmatrix} 1 & R & 0 \end{bmatrix}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62 k Ω $\rightarrow$ 562×10^1 $\rightarrow$ 5621.....RN1/4PC $\begin{bmatrix} 5 & 6 & 2 & 1 \end{bmatrix}$ F

Mark No. Description Part No. LIST OF ASSEMBLIES

	1..ICEPOWER AMP ASSY	AWH7017
NSP	1..COMPOSITE ICE ASSY	AWM8106
	2..COMPOSITE S ASSY	AWX9144
	2..ICE BUFFER ASSY	AWX9145
	2..PRE BRIDGE ASSY	AWX9146
	2..ICE SHIELD ASSY	AWX9173
NSP	1..PRIM DISPLAY ASSY	AWM8120
	2..PRIMARY ASSY	AWX9166
	2..HDMI RECT ASSY	AWX9156
	2..DISPLAY ASSY (SC-LX81)	AWX9158
	2..DISPLAY ASSY (SC-LX71)	AWX9238
	2..VOL ASSY	AWX9159
	2..POWER SW ASSY	AWX9160
	2..V-BRIDGE ASSY	AWX9161
NSP	1..DIGITAL MOTHER ASSY	AWP7058
	2..D-MOTHER ASSY (SC-LX81)	AWX9196
	2..D-MOTHER ASSY (SC-LX71)	AWX9202
	2..ICE INTERFACE ASSY	AWX9137
	2..DCDC ASSY	AWX9138
	2..H GUARD2 ASSY	AWX9147

<u>Mark</u>	<u>No.</u>	<u>Description</u>	<u>Part No.</u>
		2..H GUARD ASSY	AWX9174
NSP	1..COMPONENT FIN ASSY		AWQ7058
	2..COMPONENT ASSY (SC-LX81)		AWX9141
	2..COMPONENT ASSY (SC-LX71)		AWX9211
	2..FRONT IN ASSY		AWX9142
	2..ZOUT ASSY		AWX9143
NSP	1..INTERFACE REG ASSY		AWR7067
	2..INTERFACE ASSY		AWX9148
	2..ICE REG ASSY		AWX9149
	2..B REG ASSY		AWX9150
	2..B DIODE ASSY		AWX9171
NSP	1..FBRIDGE REG ASSY		AWR7068
	2..REG ASSY		AWX9152
	2..FRONT BRIDGE ASSY		AWX9155
NSP	1..AUDIO ASSY		AWR7071
	2..AUDIO ASSY		AWX9206
	2..232C CONTROL ASSY		AWX9209
	2..PRIMARY GUARD ASSY		AWX9172
	1..HDMI NETWORK ASSY (SC-LX81)		AWX9234
	1..HDMI NETWORK ASSY (SC-LX71)		AWX9235
	1..FM/AM TUNER UNIT		AXX7248

CONTRAST OF PCB ASSEMBLIES



COMPONENT ASSY

AWX9141 and AWX9211 are constructed the same except for the following:

Mark	Symbol and Description	AWX9141	AWX9211
	IC6002, IC6004 Multiplexer(4chx2)	TC74LVX4052FT	Not used
	IC6008 Video IC	NJM2581M	Not used
	JA6003 Pin Jack(6p)	AKB7204	Not used
	JA6005 Pin Jack(3p)	Not used	AKB7203
	R6043-R6045	RS1/16S750J	Not used
	R6108	RS1/16S103J	Not used
	C6050, C6051, C6055-C6057	CEAT101M10	Not used
	C6058, C6059, C6148, C6151, C6158, C6161	CKSRYB105K10	Not used
	C6060, C6061, C6149, C6150, C6159, C6160	CCSRCH102J50	Not used
	C6131-C6136	CKSRYB103K50	Not used

**DISPLAY ASSY**

AWX9158 and AWX9238 are constructed the same except for the following:

A

Mark	Symbol and Description	AWX9158	AWX9238
	R8015, R8084	Not used	RS1/16S0R0J

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
				C	5035,5038,5055,5056		CEAT220M50
				C	5043,5044,5113,5114		CCSRCH220J50
				C	5045,5046,5115,5116		CEAT100M50
				C	5051-5054,5071-5074		CCSRCH101J50
				C	5075,5076,5085,5086		CEAT220M50
				C	5081-5084,5091-5094		CCSRCH101J50
				C	5095,5096,5105,5106		CEAT220M50
				C	5101-5104,5111,5112		CCSRCH101J50
				C	5121-5124,5131,5132		CCSRCH101J50
				C	5125,5126,5145,5146		CEAT220M50
				C	5133,5134		CCSRCH220J50
				C	5135,5136,5221,5222		CEAT100M50
				C	5141-5144,5151-5154		CCSRCH101J50
				C	5155,5156,5165,5166		CEAT220M50
				C	5161-5164,5171-5174		CCSRCH101J50
				C	5175,5176,5185,5186		CEAT220M50
				C	5181-5184,5205,5206		CCSRCH101J50
				C	5202,5204		ACH1479
				C	5207,5208		CEAT220M50
				C	5209,5210		CFHXSQ103J16
				C	5223,5224,5227,5228		CEAT2R2M50
				C	5225,5226,5271-5278		CEAT100M50
				C	5231,5233,5411,5412		CEAT470M16
				C	5235,5236,5282,5303		CCSRCH101J50
				C	5265,5266,5285,5286		CKSRYB103K50
				C	5290,5503,5504,5656		CEAT100M50
				C	5301,5302,5305,5306		CKSRYB103K50
				C	5304		CCSRCH101J50
				C	5307,5308		ACH7196
				C	5351,5352,5421,5423		CKSRYB103K50
				C	5356,5357,5508,5510		CCSRCH102J50
				C	5401,5402		CEAT1R0M50
				C	5409,5410		CEAT471M16
				C	5419,5420		CKSRYB105K16
				C	5422,5424		CEAT470M25
				C	5431,5432,5601,5605		CKSRYB103K50
				C	5451,5603,5606		CEAT101M16
				C	5501,5502		CEAT2R2M50
				C	5511,5611,5652		CCSRCH102J50
				C	5602,5708,5710,5712		CKSRYB104K16
				C	5607,5621,5622		CCSRCH100D50
				C	5613		CCSRCH331J50
				C	5651		CEAT101M10
				C	5654,5705		CKSRYB103K50
				C	5655,5657		CCSRCH270J50
				C	5658		CKSRYB472K50
				C	5701,5703,5709,5711		CKSRYB471K50
				C	5702,5704		CKSRYB104K50
				C	5713,5715,5719		CKSRYB471K50
				C	5714,5718		CKSRYB104K16

**AUDIO ASSY****SEMICONDUCTORS**

	IC	5001,5282,5302,5401	NJM4565MD
	IC	5201	BD3473KS2
	IC	5221	BD3814FV
B	IC	5255,5351	TC4053BFN
	IC	5301	TC4066BFN
	IC	5651	LC72725KM
	Q	5269,5301,5351	RT1N241M
	Q	5302	RT1P241M
	Q	5401,5402	2SK208
	Q	5431	IMX25
	Q	5451	RT3T22M
	Q	5453	RT1N140M
	Q	5501	2SD1858X
	Q	5502	2SB1237X
C	Q	5601	2SD1664
	D	5201,5301,5302	1SS302
	D	5401,5402,5451,5452	1SS352
	D	5501,5502	UDZS7R5(B)
	D	5602	UDZS10(B)
	D	5651	1SS352

MISCELLANEOUS

	L	5651 CHIP SOLID INDUCTOR	QTL1013
	JA	5001,5002 PIN JACK(4P)	XKB3017
	JA	5004-5009 PIN JACK(4P)	XKB3017
	RY	5451 RELAY	VSR1017
D	X	5651 CRYSTAL RESONATOR (4.332 MHz)	ASS7004
	CN	5002 CONNECTOR	CKS3384
	CN	5003 CONNECTOR	CKS3386
	CN	5004 13P CONNECTOR	52044-1345
	CN	5005 17P CONNECTOR	52044-1745
	CN	5006 21P SOCKET	XKP3081
	CN	5007 9P CONNECTOR	52044-0945
	CN	5008 11P CONNECTOR	52044-1145
	CN	5009 CONNECTOR	CKS3376
	JH	5001 PCB BINDER	VEF1040
E	JP	5001 5P HOUSING ASSY	ADX7653

RESISTORS

	R	5413,5414	RD1/4MUF330J
		Other Resistors	RS1/16S###J

CAPACITORS

	C	5001,5002,5403,5404	CCSRCH221J50
	C	5003,5004,5017,5018	CEAT100M50
	C	5005,5006,5201,5203	CCSRCH331J50
	C	5007,5008,5019,5020	CEAT470M16
	C	5009,5010,5653	CCSRCH561J50
	C	5011,5012	CKSRYB822K50
	C	5013-5016	CKSRYB122K50
	C	5021,5022,5232,5234	CKSRYB104K16
F	C	5031-5034,5041,5042	CCSRCH101J50

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
B		D-MOTHER ASSY (SC-LX81)		D	2953,2954		MC2846-11
SEMICONDUCTORS				MISCELLANEOUS			
IC	2001		PEG489B8	L	2001 CHIP SOLID INDUCTOR		QTL1013
IC	2002,2003,2203,2204		TC4094BFN	L	2002,2003 CHIP SOLID INDUCTOR		ATL7002
IC	2005		BU4842F	L	2404-2406 CHIP SOLID INDUCTOR		QTL1013
IC	2006		TC74LCX244FTS1	L	2408,2409 CHIP SOLID INDUCTOR		QTL1013
IC	2007,2008,2406		TC74VHCT125AFTS1	L	2411-2416 CHIP SOLID INDUCTOR		QTL1013
IC	2009		TC74VHCT541AFTS1	L	2701 CHIP SOLID INDUCTOR		QTL1013
⚠ IC	2011,2412		NJM2880U1-33	L	2703-2711 CHIP SOLID INDUCTOR		QTL1013
IC	2201		PEG396A	L	2713 CHIP SOLID INDUCTOR		QTL1013
IC	2202		AYW7256	L	2801-2804 CHIP SOLID INDUCTOR		QTL1013
IC	2205,2211,2408,2409		TC74VHC125FTS1	L	2806-2811 CHIP SOLID INDUCTOR		QTL1013
IC	2206		TC74VHC32FTS1	L	2951,2952 CHIP SOLID INDUCTOR		QTL1013
IC	2207,2407,2709,2805		TC74VHC08FTS1	L	3051-3054 CHIP SOLID INDUCTOR		QTL1013
IC	2208		TC74VHCT08AFTS1	L	3081 CHIP SOLID INDUCTOR		QTL1013
IC	2209		TC74VHC04FTS1	L	3151-3154 CHIP SOLID INDUCTOR		QTL1013
IC	2210		TC74VHC00FTS1	L	3181 CHIP SOLID INDUCTOR		QTL1013
IC	2213		TC7SH04FUS1	L	3251-3254 CHIP SOLID INDUCTOR		QTL1013
IC	2401		AK4114VQ	L	3281 CHIP SOLID INDUCTOR		QTL1013
IC	2403,2404,2803		TC74LCX157FTS1	L	3351-3354 CHIP SOLID INDUCTOR		QTL1013
IC	2410,2411,2707		TC7SH08FUS1	L	3381,3451 CHIP SOLID INDUCTOR		QTL1013
⚠ IC	2413,2983		NJM2845DL1-05	JA	2401 PIN JACK(3P)		AKB7205
IC	2414		TC74VHC125FTS1	JA	2402-2405 OPT. LINK IN		AKS7001
IC	2701		DSPA56720AG	JA	2406,2407 OPT. LINK OUT		AKS7002
IC	2702		AYW7234	KN	2001,2201 WRAPPING TERMINAL		VNF1084
IC	2703		HY57V641620FTP-6	KN	2401 SCREW PLATE		VNE1948
IC	2704,2705		TC74LCX573FTS1	X	2001 RESONATOR (24.000 MHz)		CSS1716
⚠ IC	2706		NJM2872BF33	X	2201 CERAMIC RESONATOR (15.7MHz)		ASS7087
⚠ IC	2710		NJM2846DL3-33	X	2701 CRYSTAL OSCILLATOR (24.576 MHz)		ASS7072
⚠ IC	2711		PQ1LAX95MSPQ	X	2702 CRYSTAL OSCILLATOR (22.5792 MHz)		ASS7071
⚠ IC	2712		RP131H101D	CN	2001 16P CONNECTOR		VKN1420
⚠ IC	2713		NJM2846DL3-25	CN	2002 29P CONNECTOR		VKN1844
IC	2714		TC7SH32FUS1	CN	2003 22P CONNECTOR		RKN1063
IC	2801		DSPC56371AF180	CN	2005,2007,2902 PLUG		CKS1764
IC	2802		PDC168A8	CN	2006 7P SOCKET		XKP3074
IC	2804,2806		TC74LCX08FTS1	CN	2008,2903 PLUG		CKS1761
IC	2807		TC74VHC126FTS1	CN	2401 PLUG(3P)		KM200NA3
IC	2808		TC7WH157FU	CN	2402 23P SOCKET		XKP3082
IC	2901,2902,3401		NJM4565MD	CN	2403 CONNECTOR		CKS3815
IC	2951		PCM1804DB	CN	2901 PLUG		CKS1758
⚠ IC	2981		NJM2391DL1-33	JH	2001 PCB BINDER		VEF1040
⚠ IC	2982		NJM2885DL1-33				
				RESISTORS			
IC	3001,3101,3201,3301		RNB4580F	R	2001-2003,2005-2007		RS1/16S104J
IC	3051,3151,3251,3351		SRC4190IDB	R	2010-2012,2035,2202		RS1/16S473J
IC	3052,3152,3252,3352		WM8740SEDS	R	2015,2027,2032,2039		RS1/16S104J
IC	3053,3153,3253,3353		TC7WH125FU	R	2018,2209		RS1/16S512J
IC	3451		AK4387ET	R	2021,2026,2028,2030		RAB4CQ101J
Q	2005,2008		RT1N241M	R	2033,2034		RAB4CQ471J
Q	2006		RT3P22M	R	2036,2049,2207,2214		RAB4CQ101J
Q	2007		2SA1366	R	2041,2043,2045,2046		RS1/16S104J
Q	2201		RT1N141M-11	R	2047,3117,3118,3217		RS1/16S474J
Q	2202		2SA1602A	R	2050,2066,2067,2069		RS1/16S104J
Q	2203		RT1P431M	R	2072,2103,2105,2107		RAB4CQ473J
Q	2205,2207,2208		RT1P241M	R	2073		RS1/16S472J
D	2001,2003,2951,2952		MC2848-11	R	2140,2141,2270,2271		RS1/16S0R0J
D	2002		RB520S-30	R	2203,2717-2719,2721		RAB4CQ220J
⚠ D	2004,2005		MC2848-11	R	2210,2237,2466,2467		RS1/16S101J
D	2201		1SS357	R	2211,2217,2229,2230		RS1/16S473J
D	2701-2704		1SR154-400	R	2216,2218,2223,2226		RAB4CQ101J

Mark No. Description**Part No.****Mark No. Description****Part No.**

R 2233,2235,2246
R 2234,2425,2730,2812
R 2241

RS1/16S473J
RAB4CQ101J
RAB4CQ473J

C 2016,2047,3001,3002
C 2017,2018,2020-2022

CCSRCH102J50
CKSRYB104K16

R 2255
R 2401-2403
R 2404-2406,2901-2904
R 2423
R 2604,3017,3018,3051

RS1/16S104J
RS1/16S750J
RS1/16S220J
RS1/16SS1802F
RS1/16SOR0J

C 2019,2026,2211-2215
C 2024,2029,2031,2038
C 2025
C 2027,2454,2457,2762
C 2028

CKSSYB104K10
CKSRYB104K16
CEAT331M10
CKSQYB225K10
CKSRYB473K50

R 2714,2905,2906,2909
R 2715,2746,2802
R 2722,2761,2762,2765
R 2747,2803
R 2759,2760,2763,2764

RS1/16S103J
RAB4CQ470J
RAB4CQ220J
RAB4CQ103J
RAB4CQ221J

C 2037,2929,2952,2984
C 2041,2046,2209,2210
C 2050-2054,2056-2065
C 2201,2426,2827
C 2202,2204,2205,2208

CEHAZL101M25
CKSRYB104K16
CCSSCH100D50
ACH7272
CCSSCH471J16

R 2766
R 2789
R 2790
R 2791
R 2795,2796

RAB4CQ220J
RS1/16SS1000F
RS1/16SS1202F
RS1/10SOR0J
RS1/16S101J

C 2206,2965,3052,3071
C 2216
C 2217,2227,2402,2404
C 2222,2224-2226,2228
C 2230,2414,2421,2425

CCSRCH471J50
CEAT102M10
CKSRYB104K16
CKSSYB104K10
CKSSYB104K10

R 2822,3455
R 2907,2908,2911,2912
R 2910
R 2913-2918,3108,3116
R 2919,2920

RAB4CQ101J
RS1/16S682J
RS1/16S103J
RS1/16S392J
RS1/16S822J

C 2406-2413,2417,2450
C 2415,2431,2433,2437
C 2416,2419,2422,2458
C 2418,2420,2424,2747
C 2423

CKSRYB104K16
CKSSYB471K50
CEHAZL101M10
CCSSCH471J16
CKSRYB474K10

R 2921,2922
R 3001,3002,3009,3010
R 3003-3006,3011-3014
R 3007,3008,3015,3016
R 3021,3022,3119,3120

RS1/16S911J
RS1/16S181J
RS1/16S222J
RS1/16S202J
RS1/16S221J

C 2430,2432,2436,2438
C 2439,2447,2449,2462
C 2440,2448,2452,2461
C 2451,2785
C 2453,2456,2780,2901

CKSSYB104K10
CKSSYB471K50
CKSSYB104K10
ACH7273
CKSRYB104K16

R 3101,3109,3201,3202
R 3102,3110
R 3103-3106,3203-3206
R 3107,3112,3114,3115
R 3111,3113,3211-3214

RS1/16S681J
RS1/16S181J
RS1/16S222J
RS1/16S122J
RS1/16S272J

C 2455,2732,2781,2783
C 2463,2701,2703,2704
C 2464,2702,2705,2708
C 2706,2707,2709,2711
C 2710,2712,2714,2718

CEHAZL221M10
CKSSYB471K50
CKSSYB104K10
CKSSYB471K50
CKSSYB104K10

R 3151,3251,3351,3456
R 3207,3208,3215,3216
R 3209,3210,3301,3302
R 3218,3317,3318,3413
R 3219,3220,3319,3320

RS1/16SOR0J
RS1/16S122J
RS1/16S681J
RS1/16S474J
RS1/16S221J

C 2713,2715-2717,2719
C 2720,2723,2725,2728
C 2721,2722,2724,2726
C 2727,2729,2736,2743
C 2730,2734

CKSSYB471K50
CKSSYB104K10
CKSSYB471K50
CKSSYB471K50
CKSQYB474K25

R 3303-3306
R 3307,3308,3315,3316
R 3309,3310
R 3311-3314
R 3401,3402

RS1/16S222J
RS1/16S122J
RS1/16S681J
RS1/16S272J
RS1/16S223J

C 2731
C 2733
C 2735,2779,2851,2852
C 2737,2744,2746,2756
C 2745,2769,2772,2801

CKSQYB225K16
ACH7203
CKSQYB475K10
CKSSYB104K10
CKSSYB471K50

R 3403,3404
R 3405,3406,3409,3410
R 3407,3408
R 3411,3412
R 3414

RS1/16S302J
RS1/16S332J
RS1/16S392J
RS1/16S221J
RS1/16S474J

C 2748,2750,2751,2753
C 2749,2752,2754
C 2755,2791,2796
C 2757,2759,2764,2766
C 2758,2760,2761,2763

CKSSYB105K6R3
CCSSCH102J50
CKSSYB105K6R3
CCSSCH471J16
CKSSYB104K10

R 3458
Other Resistors

RS1/16S4R7J
RS1/16SS###J

C 2765,2770,2771
C 2773-2776,2786-2790
C 2777,2778,2991,2993
C 2782,2956,2957,3061
C 2784,3065,3165,3265

CKSSYB104K10
CKSSYB104K10
CKSQYB225K10
ACH7211
CEHAZL221M10

CAPACITORS

C 2001,2040,3060,3068
C 2002,2004,2006,2011
C 2003,2014,2015,2039
C 2005,2007,2030,2032
C 2008,2738,2817

CKSRYB105K16
CKSRYB104K16
CKSRYB471K50
CKSRYB102K50
CKSSYB103K16

C 2792-2795
C 2797,2798,2800,2802
C 2799
C 2803,2805,2807,2809
C 2804,2806,2808,2810

CCSSCH102J50
CKSSYB104K10
VCH1234
CKSSYB471K50
CKSSYB104K10

C 2009
C 2012
C 2013,2220,2221,2954

ACH7298
CKSRYB472K50
CKSRYB103K50

C 2811,2813,2815,2818
C 2812,2814,2816,2819

CKSSYB471K50
CKSSYB104K10

5	6	7	8
Mark No. Description	Part No.	Mark No. Description	Part No.
C 2820,2822,2824,2831	CKSSYB471K50	B D-MOTHER ASSY (SC-LX71)	
C 2821,2823,2825,2829	CKSSYB104K10		
C 2826,3055,3063,3155	ACH7268	SEMICONDUCTORS	
C 2830,2832,2834,2836	CKSSYB104K10	IC 2001	PEG489B8
C 2833,2835,2837,2838	CKSSYB471K50	IC 2002,2003,2203,2204	TC4094BFN
C 2839,2840,3081,3181	CKSSYB104K10	IC 2005	BU4842F
C 2841,3082,3182,3282	CKSSYB471K50	IC 2006	TC74LCX244FTS1
C 2902,2928,2953,2955	CKSRYB104K16	IC 2007,2008,2406	TC74VHCT125AFTS1
C 2903,2904	DCH1201	IC 2009	TC74VHCT541AFTS1
C 2905-2908,3109,3110	ACH7196	⚠ IC 2011,2412	NJM2880U1-33
C 2911,2912,2915,2916	CFHXSQ103J16	IC 2201	PEG396A
C 2913,2914	CCSRCH101J50	IC 2202	AYW7256
C 2958,2961-2963,2966	CKSRYB104K16	IC 2205,2211,2408,2409	TC74VHC125FTS1
C 2959,2964,3059,3070	CKSRYB103K50	IC 2206	TC74VHC32FTS1
C 2960,2981,2990,2995	CEHAZL101M10	IC 2207,2407,2709,2805	TC74VHC08FTS1
C 2983,2992,2994,3053	CKSRYB104K16	IC 2208	TC74VHCT08AFTS1
C 2987	CEHAZL101M25	IC 2209	TC74VHC04FTS1
C 2996,2997,3007,3008	CFHXSQ103J16	IC 2210	TC74VHC00FTS1
C 3003-3006,3103,3105	CCSRCH331J50	IC 2213	TC7SH04FUS1
C 3013,3014,3113,3114	CFHXSQ472J16	IC 2401	AK4114VQ
C 3051,3151,3251,3351	CEHAZL101M10	IC 2403,2404,2803	TC74LCX157FTS1
C 3056,3058,3062,3064	CKSRYB104K16	IC 2410,2411,2707	TC7SH08FUS1
C 3057,3075,3101,3102	CCSRCH102J50	⚠ IC 2413,2983	NJM2845DL1-05
C 3066,3072,3153,3156	CKSRYB104K16	IC 2414	TC74VHC125FTS1
C 3067,3161,3167,3261	ACH7211	IC 2701	DSPA56720AG
C 3104,3106	CCSRCH271J50	IC 2702	AYW7234
C 3107,3108,3207,3208	CFHXSQ103J16	IC 2703	HY57V641620FTP-6
C 3152,3171,3252,3271	CCSRCH471J50	IC 2704,2705	TC74LCX573FTS1
C 3157,3175,3201,3202	CCSRCH102J50	⚠ IC 2706	NJM2872BF33
C 3158,3162,3164,3166	CKSRYB104K16	⚠ IC 2710	NJM2846DL3-33
C 3159,3170,3259,3270	CKSRYB103K50	⚠ IC 2711	PQ1LAX95MSPQ
C 3160,3168,3260,3268	CKSRYB105K16	⚠ IC 2712	RP131H101D
C 3163,3255,3263,3355	ACH7268	⚠ IC 2713	NJM2846DL3-25
C 3172,3253,3256,3258	CKSRYB104K16	IC 2714	TC7SH32FUS1
C 3203-3206,3303-3306	CCSRCH331J50	IC 2801	DSPC56371AF180
C 3209,3210,3309,3310	ACH7196	IC 2802	PDC168A8
C 3213,3214,3313,3314	CFHXSQ472J16	IC 2804,2806	TC74LCX08FTS1
C 3257,3275,3301,3302	CCSRCH102J50	IC 2807	TC74VHC126FTS1
C 3262,3264,3266,3272	CKSRYB104K16	IC 2901,2902,3401	NJM4565MD
C 3267,3361,3367	ACH7211	IC 2951	PCM1804DB
C 3281,3381,3461	CKSSYB104K10	⚠ IC 2981	NJM2391DL1-33
C 3307,3308	CFHXSQ103J16	IC 3001,3101,3201,3301	RNB4580F
C 3352,3371,3405,3406	CCSRCH471J50	IC 3052,3152,3252,3352	WM8740SEDS
C 3353,3356,3358,3362	CKSRYB104K16	IC 3451	AK4387ET
C 3357,3375	CCSRCH102J50	Q 2005,2008	RT1N241M
C 3359,3370,3456,3458	CKSRYB103K50	Q 2006	RT3P22M
C 3360,3368	CKSRYB105K16	Q 2007	2SA1366
C 3363	ACH7268	Q 2201	RT1N141M-11
C 3364,3366,3372,3452	CKSRYB104K16	Q 2202	2SA1602A
C 3365	CEHAZL221M10	Q 2203	RT1P431M
C 3382	CKSSYB471K50	Q 2205,2207,2208	RT1P241M
C 3401,3402	CEAT220M50	D 2001,2003,2951,2952	MC2848-11
C 3403,3404	CCSRCH391J50	D 2002	RB520S-30
C 3407,3408	CKSRYB104K25	⚠ D 2004,2005	MC2848-11
C 3409,3410	CEAT100M50	D 2201	1SS357
C 3453,3454	CEAT470M16	D 2701-2704	1SR154-400
C 3455,3457,3460	CKSRYB104K16	D 2953,2954	MC2846-11
C 3459	CCSRCH471J50		
		MISCELLANEOUS	
		L 2001 CHIP SOLID INDUCTOR	QTL1013
		L 2002,2003 CHIP SOLID INDUCTOR	ATL7002

Mark No. Description**Part No.****Mark No. Description****Part No.**

A

L 2404-2406 CHIP SOLID INDUCTOR
 L 2408,2409 CHIP SOLID INDUCTOR
 L 2411-2416 CHIP SOLID INDUCTOR

 L 2701 CHIP SOLID INDUCTOR
 L 2703-2711 CHIP SOLID INDUCTOR
 L 2713 CHIP SOLID INDUCTOR
 L 2801-2804 CHIP SOLID INDUCTOR
 L 2806-2810 CHIP SOLID INDUCTOR

QTL1013
 QTL1013
 QTL1013

 QTL1013
 QTL1013
 QTL1013
 QTL1013
 QTL1013

R 2604,3017,3018,3065

 R 2714,2905,2906,2909
 R 2715,2746,2802
 R 2722,2761,2762,2765
 R 2747,2803
 R 2759,2760,2763,2764

RS1/16S0R0J

 RS1/16S103J
 RAB4CQ470J
 RAB4CQ220J
 RAB4CQ103J
 RAB4CQ221J

R 2766
 R 2789
 R 2790
 R 2791
 R 2795,2796

RAB4CQ220J
 RS1/16SS1000F
 RS1/16SS1202F
 RS1/10S0R0J
 RS1/16S101J

B

L 3451 CHIP SOLID INDUCTOR
 JA 2402-2405 OPT. LINK IN
 JA 2406,2407 OPT. LINK OUT
 JA 2408 PIN JACK(2P)
 KN 2001,2201 WRAPPING TERMINAL

QTL1013
 AKS7001
 AKS7002
 AKB7173
 VNF1084

R 2822,3455
 R 2907,2908,2911,2912
 R 2910
 R 2913-2918,3108,3116
 R 2919,2920

RAB4CQ101J
 RS1/16S682J
 RS1/16S103J
 RS1/16S392J
 RS1/16S822J

R 2921,2922
 R 3001,3002,3009,3010
 R 3003-3006,3011-3014
 R 3007,3008,3015,3016
 R 3021,3022,3119,3120

RS1/16S911J
 RS1/16S181J
 RS1/16S222J
 RS1/16S202J
 RS1/16S221J

C

CN 2001 16P CONNECTOR
 CN 2002 29P CONNECTOR
 CN 2003 22P CONNECTOR
 CN 2005,2007,2902 PLUG
 CN 2006 7P SOCKET

VKN1420
 VKN1844
 RKN1063
 CKS1764
 XKP3074

R 3066,3080,3165,3166
 R 3101,3109,3201,3202
 R 3102,3110
 R 3103-3106,3203-3206
 R 3107,3112,3114,3115

RS1/16S0R0J
 RS1/16S681J
 RS1/16S181J
 RS1/16S222J
 RS1/16S122J

CN 2008,2903 PLUG
 CN 2401 PLUG(3P)
 CN 2402 23P SOCKET
 CN 2403 CONNECTOR
 CN 2901 PLUG

CKS1761
 KM200NA3
 XKP3082
 CKS3815
 CKS1758

R 3111,3113,3211-3214
 R 3180,3265,3266,3280
 R 3207,3208,3215,3216
 R 3209,3210,3301,3302
 R 3218,3317,3318,3413

RS1/16S272J
 RS1/16S0R0J
 RS1/16S122J
 RS1/16S681J
 RS1/16S474J

JH 2001 PCB BINDER

VEF1040

R 3219,3220,3319,3320
 R 3303-3306
 R 3307,3308,3315,3316
 R 3309,3310
 R 3311-3314

RS1/16S221J
 RS1/16S222J
 RS1/16S122J
 RS1/16S681J
 RS1/16S272J

D

RESISTORS

R 2001-2003,2005-2007
 R 2010,2013,2035,2201
 R 2015,2027,2032,2039
 R 2018,2209
 R 2021,2026,2028,2030

RS1/16S104J
 RS1/16S473J
 RS1/16S104J
 RS1/16S512J
 RAB4CQ101J

R 3365,3366,3380,3456
 R 3401,3402
 R 3403,3404
 R 3405,3406,3409,3410
 R 3407,3408

RS1/16S0R0J
 RS1/16S223J
 RS1/16S302J
 RS1/16S332J
 RS1/16S392J

R 2033,2034
 R 2036,2049,2207,2214
 R 2041,2043,2045,2046
 R 2047,3117,3118,3217
 R 2050,2066,2067,2069

RAB4CQ471J
 RAB4CQ101J
 RS1/16S104J
 RS1/16S474J
 RS1/16S104J

R 3411,3412
 R 3414
 R 3458
 Other Resistors

RS1/16S221J
 RS1/16S474J
 RS1/16S474J
 RS1/16S474J
 RS1/16S474J

E

R 2072,2103,2105,2107
 R 2073
 R 2140,2141,2270,2271
 R 2203,2717-2719,2721
 R 2210,2237,2466,2467

RAB4CQ473J
 RS1/16S472J
 RS1/16S0R0J
 RAB4CQ220J
 RS1/16S101J

CAPACITORS

C 2001,2040,3060,3068
 C 2002,2004,2006,2011
 C 2003,2014,2015,2039
 C 2005,2007,2030,2032
 C 2008,2738,2817

CKSRYB105K16
 CKSRYB104K16
 CKSRYB471K50
 CKSRYB102K50
 CKSSYB103K16

R 2211,2217,2229,2230
 R 2216,2218,2223,2226
 R 2233,2235
 R 2234,2425,2730,2812
 R 2241

RS1/16S473J
 RAB4CQ101J
 RS1/16S473J
 RAB4CQ101J
 RAB4CQ473J

C 2009
 C 2012,3011,3012,3111
 C 2013,2220,2221,2954
 C 2016,2047,3001,3002
 C 2017,2018,2020-2022

ACH7298
 CKSRYB472K50
 CKSRYB103K50
 CCSRCH102J50
 CKSRYB104K16

F

R 2255
 R 2401,2402
 R 2404,2405,2901-2904
 R 2423

RS1/16S104J
 RS1/16S750J
 RS1/16S220J
 RS1/16SS1802F

C 2019,2026,2211-2215
 C 2024,2029,2031,2038
 C 2025

CKSSYB104K10
 CKSRYB104K16
 CEAT331M10

5				6				7				8			
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.	Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
C	2027,2454,2457,2762		CKSQYB225K10	C	2839,3461		CKSSYB104K10	C	2905-2908,3109,3110		ACH7196				
C	2028		CKSRYPB473K50	C	2902,2928,2953,2955		CKSSYB104K16	C	2911,2912,2915,2916		CKSQYB103K50				
C	2037,2929,2952,2984		CEHAZL101M25	C	2903,2904		CCSSCH100D50	C	2913,2914		CCSRCH101J50				
C	2041,2046,2209,2210		CKSRYPB104K16	C	2958,2961-2963,2966		ACH7272	C	2959,2964,3059,3070		CKSRYPB104K16				
C	2050-2054,2056-2065		CCSSCH471J16	C	2960,2981,2995		CCSRCH471J50	C	2983,2994,3058,3062		CKSQYB103K50				
C	2201,2426,2827		CEAT102M10	C	2985,2986,3407,3408		CKSSYB104K10	C	2987		CKSRYPB104K16				
C	2202,2204,2205,2208		CKSSYB104K10	C	3003-3006,3103,3105		CKSSYB104K16	C	3007,3008,3107,3108		CCSRCH331J50				
C	2206,2965,3071,3171		CKSSYB104K10	C	3064,3066,3072,3158		CKSSYB104K10	C	3067,3161,3167,3261		CKSRYPB104K16				
C	2216		CKSSYB104K10	C	3101,3102,3201,3202		CKSSYB104K10	C	3104,3106		ACH7211				
C	2217,2227,2402,2404		CKSSYB104K10	C	3112,3211,3212,3311		CKSSYB104K10	C	3159,3170,3259,3270		CCSRCH102J50				
C	2222,2224-2226,2228		CKSSYB104K10	C	3160,3168,3260,3268		CKSSYB104K10	C	3162,3164,3166,3172		CCSRCH271J50				
C	2230,2414,2421,2425		CKSSYB104K10	C	3203-3206,3303-3306		CKSSYB104K10	C	3207,3208,3307,3308		CKSQYB103K50				
C	2407-2413,2417,2450		CKSSYB104K10	C	3209,3210,3309,3310		CKSSYB104K10	C	3258,3262,3264,3266		ACH7196				
C	2415,2431,2433,2437		CKSSYB104K10	C	3267,3361,3367		CKSSYB104K10	C	3271,3371,3405,3406		CKSRYPB104K16				
C	2416,2419,2422,2458		CKSSYB104K10	C	3272,3358,3362,3364		CKSSYB104K10	C	3301,3302		CCSRCH102J50				
C	2418,2420,2424,2747		CKSSYB104K10	C	3312		CKSSYB104K10	C	3359,3370,3456,3458		CKSRYPB104K16				
C	2423		CKSSYB104K10	C	3360,3368		CKSSYB104K10	C	3363		CKSQYB103K50				
C	2430,2432,2434,2436		CKSSYB104K10	C	3366,3372,3452,3455		CKSSYB104K10	C	3365		ACH7268				
C	2438,2440,2448,2452		CKSSYB104K10	C	3401,3402		CKSSYB104K10	C	3403,3404		CEHAZL221M10				
C	2439,2447,2449,2462		CKSSYB104K10	C	3409,3410		CKSSYB104K10	C	3453,3454		CKSRYPB104K16				
C	2451,2785		CKSSYB104K10	C	3457,3460		CKSSYB104K10	C	3459		CEAT220M50				
C	2453,2456,2780,2901		CKSSYB104K16	C	6201		CKSSYB104K10	C	6201,6202,6204		CCSRCH391J50				
C	2455,2732,2781,2783		CKSSYB104K10	C	6203,6205,6206		CKSSYB104K10	C	6303,6304		CEAT100M50				
C	2461,2464,2702,2705		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CEAT470M16				
C	2463,2701,2703,2704		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CKSRYPB104K16				
C	2706,2707,2709,2711		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CKSQYB103K50				
C	2708,2710,2712,2714		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		ACH7211				
C	2713,2715-2717,2719		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CCSRCH471J50				
C	2718,2720,2723,2725		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CKSRYPB104K16				
C	2721,2722,2724,2726		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CKSQYB103K50				
C	2727,2729,2736,2743		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		ACH7211				
C	2728,2737,2744,2746		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CCSRCH471J50				
C	2730,2734		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CKSRYPB104K16				
C	2731		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CKSQYB103K50				
C	2733		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		ACH7268				
C	2735,2779,2851,2852		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CEHAZL221M10				
C	2745,2769,2772,2801		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CKSRYPB104K16				
C	2748,2750,2751,2753		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CEAT220M50				
C	2749,2752,2754		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CCSRCH391J50				
C	2755,2791,2796		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CKSRYPB104K16				
C	2756,2758,2760,2761		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CKSQYB103K50				
C	2757,2759,2764,2766		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		ACH7211				
C	2763,2765,2770,2771		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CCSRCH471J50				
C	2773-2776,2786-2790		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CKSRYPB104K16				
C	2777,2778,2993		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CKSQYB103K50				
C	2782,2956,2957,3061		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		ACH7268				
C	2784,3065,3165,3265		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CEHAZL221M10				
C	2792-2795		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CKSRYPB104K16				
C	2797,2798,2800,2802		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CKSQYB103K50				
C	2799		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		ACH7211				
C	2803,2805,2807,2809		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CCSRCH471J50				
C	2804,2806,2808,2810		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CKSRYPB104K16				
C	2811,2813,2815,2818		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CKSQYB103K50				
C	2812,2814,2816,2819		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		ACH7268				
C	2820,2822,2824,2831		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CEHAZL221M10				
C	2821,2823,2825,2829		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CKSRYPB104K16				
C	2826,3063,3163,3263		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CKSQYB103K50				
C	2830,2832,2834,2836		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		ACH7211				
C	2833,2835,2837,2838		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CCSRCH471J50				
C	2833,2835,2837,2838		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CKSRYPB104K16				
C	2833,2835,2837,2838		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CKSQYB103K50				
C	2833,2835,2837,2838		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		ACH7268				
C	2833,2835,2837,2838		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CEHAZL221M10				
C	2833,2835,2837,2838		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CKSRYPB104K16				
C	2833,2835,2837,2838		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CKSQYB103K50				
C	2833,2835,2837,2838		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		ACH7211				
C	2833,2835,2837,2838		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CCSRCH471J50				
C	2833,2835,2837,2838		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CKSRYPB104K16				
C	2833,2835,2837,2838		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CKSQYB103K50				
C	2833,2835,2837,2838		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		ACH7268				
C	2833,2835,2837,2838		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CEHAZL221M10				
C	2833,2835,2837,2838		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CKSRYPB104K16				
C	2833,2835,2837,2838		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CKSQYB103K50				
C	2833,2835,2837,2838		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		ACH7211				
C	2833,2835,2837,2838		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CCSRCH471J50				
C	2833,2835,2837,2838		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CKSRYPB104K16				
C	2833,2835,2837,2838		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CKSQYB103K50				
C	2833,2835,2837,2838		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		ACH7268				
C	2833,2835,2837,2838		CKSSYB104K10	C	6201,6202,6204		CKSSYB104K10	C	6203,6205,6206		CEHAZL221M10				
C	2833,2835,2837,2838		CKSSYB104K10	C	6303,6304		CKSSYB104K10	C	6201,6202,6204		CKSRYPB104K16				
C															

Mark No. Description

CN 6202 CONNECTOR
CN 6301 PLUG(5P)

Part No.

CKS3380
KM200NA5

CN 6351 4P JUMPER CONNECTOR

52147-0410

RESISTORS

All Resistors

RS1/16S###J

MISCELLANEOUS

JH 6302 PCB BINDER

VEF1040

CAPACITORS

C 6202,6208,6218,6224
C 6204,6220,6226,6228
C 6205,6206
C 6209
C 6210,6211,6234,6235

CKSRYB104K16
CKSRYB103K50
CKSRYB221K50
CKSRYB105K6R3
CEAT100M50

C 6212
C 6213
C 6214-6216,6249-6251
C 6219
C 6222,6227

CKSRYB471K50
CKSQYB106K6R3
CCSRCH101J50
CEJQ100M16
CCSRCH220J50

C 6223,6225
C 6229
C 6230-6232,6239,6246
C 6233
C 6236,6245,6247

CEAT330M25
CKSRYB102K50
CKSRYB103K50
CKSRYB472K50
CKSRYB104K16

C 6237
C 6240-6242,6356
C 6243,6244
C 6248
C 6303

CEAT100M50
CCSRCH102J50
CEAL220M16
CKSRYB103K50
CKSRYB104K25

C 6353,6354

CKSRYB822K50

D 232C & CONTROL ASSY**SEMICONDUCTORS**

IC 5801
Q 5801
Q 5802
Q 5806
Q 5807

HIN202EIBNZ
2SC4154
DTA114TUA
2SA1366
RT1N241M

D 5804,5805
D 5806,5807
D 5809,5810
D 5813,5814
D 5815,5816

1SS352
1SS357
SIM-20STS1
MC2848-11
HZU5R1(B2)

MISCELLANEOUS

L 5803-5807 CHIP SOLID INDUCTOR
L 5809-5811 CHIP SOLID INDUCTOR
JA 5801 9P D-SUB SOCKET
JA 5802,5804-5806 JACK
JA 5803 MINI JACK(4P) /W SW

QTL1013
QTL1013
AKP1213
VKB1243
XKN3015

KN 5801,5802 SCREW PLATE
CN 5801 23P SOCKET

VNE1948
XKP3082

RESISTORS

All Resistors

RS1/16S###J

MISCELLANEOUS

U 5801 REMOTE RECEIVER UNIT

GP1UE284QKC1

Mark No. Description**CAPACITORS**

C 5802,5811,5828
C 5803
C 5804,5805
C 5807-5810
C 5812,5829

C 5830,5831
C 5832-5834
C 5837

Part No.

CKSRYB103K50
CCSRCH331J50
CKSRYB102K50
CKSRYB104K16
CEAT101M16

CKSRYB471K50
CCSRCH100D50
CCSRCH101J50

HDMI NETWORK ASSY (SC-LX81)**SEMICONDUCTORS**

⚠ IC 11
⚠ IC 21
⚠ IC 31
IC 101
IC 201

IC 202
IC 203
IC 204,205,208
IC 251
IC 252

IC 301,351
⚠ IC 302,352
IC 401
IC 402
IC 501

IC 502
IC 504
IC 505,911,1871
IC 601
IC 801

IC 861
IC 881
IC 891
IC 921,1861
⚠ IC 1001

⚠ IC 1021
⚠ IC 1051
⚠ IC 1071
IC 1081
IC 1082

IC 1151
IC 1204
IC 1208
IC 1301
IC 1351

IC 1381,1383,1384,1402
IC 1382,1401,1403
IC 1404
IC 1701
⚠ IC 1702

IC 1703
IC 1901
⚠ IC 1902
IC 1903
IC 1951

Q 201
Q 301,351,1104,1203

NJM2846DL3-33
NJM2846DL3-18
NJM2886DL3-33
SII9135CTU
TC74VHC541FTS1

ICS571MLF
TC7WH74FU
TC7WH157FU
TC74VHC157FTS1
TC7SH08FUS1

SII9134CTU
NJM2872BF05
ADV7800BSTZ-80
TC7WHU04FU
PEG118A

AYW7254
BU4094BCFV
TC74VHC08FTS1
ADV7172KSTZ
AAT4618IGV-0.5-1

RTL8201CP-LF
AYW7255
HY57V281620FTP-6
TC74VHCT08AFTS1
TPS54350PWP

LTC3850EGN
LT3505EMS8E
NJM2885DL1-05
TC7WH125FU
TC7WT125FU

SII9185ACTU
S-24CS02AFT
TC7MB3257FK
FLI2310-LF-CF
M12L64322A-6TG

TC74LCX541FTS1
TC7SZ125FU
TC74LCX541FTS1
UPD61111GM-100UEVA
NJM2885DL1-15

KA5SDKAS01TSN
K4H561638H-UCB3
S-1132B25-U5
NJM12904V
AYW7232

RT1P241M
DTC114YUA

5				7				8			
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.				
Q	302,352		UMB1N	X	702	CRYSTAL RESONATOR (25.0 MHz)	ASS7084				
Q	631,641,651,661		2SA1602A	X	791	CRYSTAL OSCILLATOR (32.768 kHz)	ASS1172				
Q	671,681,1801,1811		2SA1602A	X	1301	CRYSTAL RESONATOR (13.5 MHz)	ASS7070				
⚠ Q	1001		RTQ045N03	X	1701	CRYSTAL RESONATOR (27.0000 MHz)	BSS1123				
⚠ Q	1021,1022		SP8K1	CN	201	23P SOCKET	XKP3083				
Q	1204		DTC114YUA	CN	502	13P SOCKET	XKP3077				
Q	1281		HN1K02FU	CN	601	CONNECTOR	CKS4898				
Q	1821,1831		2SA1602A	CN	801	CONNECTOR	AKM1276				
D	301,351		UDZS5R1(B)	CN	902	5P CONNECTOR	VKN1374				
D	551,1701		RB501V-40	CN	1001	CONNECTOR	CKS3815				
⚠ D	1001		RLZ6.8B	CN	1002	15P SOCKET	XKP3078				
D	1021,1022,1052		RB160VA-40	CN	1003	CONNECTOR	CKS1755				
⚠ D	1023,1024		RLZ5.6B	CN	1701	22P CONNECTOR	VKN1426				
D	1051		RB160M-30	CN	1702	CONNECTOR	VKN2040				
D	1101-1104		DAN202U	JH	1	PCB BINDER	VEF1040				
D	1861		1SS352								
MISCELLANEOUS				RESISTORS							
L	101-104,301-305 CHIP BEADS	ATL7010		R	101,103-105,108		RAB4CQ100J				
L	105,106 CHIP SOLID INDUCTOR	QTL1013		R	115,204		RAB4CQ680J				
L	201 INDUCTOR	CTF1379		R	119,320,322-330		RAB4CQ473J				
L	202-204 CHIP SOLID INDUCTOR	QTL1013		R	130-132,134-136		RAB4CQ100J				
L	207,208 CHIP SOLID INDUCTOR	QTL1013		R	141-144		ACN1275				
L	251,252 CHIP SOLID INDUCTOR	QTL1013		R	305,355,609,612		RS1/16SS6800F				
L	306-309,356-359 COIL	ATH7022		R	428,429,789		RAB4CQ330J				
L	351-355,401,402 CHIP BEADS	ATL7010		R	432,433,1385-1388		RAB4CQ470J				
L	403,405 CHIP SOLID INDUCTOR	QTL1013		R	434,437,442,443		RAB4CQ473J				
L	404,406,1001,1021 CHIP BEADS	ATL7010		R	446,447,450,708		RAB4CQ473J				
L	501,601 CHIP SOLID INDUCTOR	ATL7002		R	464,465,467,468		RAB4CQ472J				
L	602 CHIP SOLID INDUCTOR	ATL7002		R	480-483,741,761		RAB4CQ220J				
L	631,641,651,661 INDUCTOR	ATL7015		R	596		RAB4CQ101J				
L	671,681,1801,1811 INDUCTOR	ATL7015		R	610,611		RS1/16SS5601F				
L	701,702,805,861 INDUCTOR	CTF1357		R	633,643,653,663		RS1/16SS2200F				
L	704-707 CHIP FERRITE BEADS	ATF1211		R	634,644,654,664		RS1/16SS4700F				
L	801 CHIP FERRITE BEADS	VTL1169		R	673,683,1702		RS1/16SS2200F				
L	802 COIL	VTH1043		R	674,684		RS1/16SS4700F				
L	862,871,881,891 INDUCTOR	CTF1357		R	723		RS1/16S5101F				
L	863,864 COIL	VTH1056		R	724		RS1/16S3900F				
L	911,936 INDUCTOR	CTF1357		R	746,747,749		RAB4CQ100J				
L	1002 POWER INDUCTOR	ATH7059		R	769,771,1322-1324		RAB4CQ220J				
L	1022 INDUCTOR	CTH1261		R	806,977,1031		RS1/16S0R0J				
L	1023 INDUCTOR	ATH7060		R	824		RS1/16SS1003F				
L	1051,1151-1153 CHIP BEADS	ATL7010		R	851-854,1906,1907		RAB4CQ330J				
L	1052 INDUCTOR	ATH7061		R	867		RS1/16S2001F				
L	1097-1099 INDUCTOR	CTF1386		R	868-871		RS1/16S49R9F				
L	1301-1305 CHIP SOLID INDUCTOR	ATL7002		R	919		RS1/10S102J				
L	1351,1901 CHIP SOLID INDUCTOR	ATL7002		R	1009,1056		RS1/16SS1002F				
L	1381-1384 CHIP SOLID INDUCTOR	QTL1013		R	1011		RS1/16SS2001F				
L	1401-1404 CHIP SOLID INDUCTOR	QTL1013		R	1016,1029,1030,1057		RS1/10S0R0J				
L	1701-1706,1902 FERRITE CORE	VTF1091		R	1021,1022,1025,1026		ACN7160				
L	1821,1831 INDUCTOR	ATL7015		R	1023		RS1/16SS4702F				
L	1861,1871 CHIP SOLID INDUCTOR	QTL1013		R	1024,1027		RS1/16SS1502F				
L	1951 FERRITE CORE	VTF1091		R	1028		RS1/16SS1202F				
JA	301,351 HDMI CONNECTOR	AKP7225		R	1055		RS1/16SS6802F				
JA	701 RJ45 CONNECTOR TRNS	VKN2078		R	1071-1074,1905		RS1/16S0R0J				
JA	1101-1104 HDMI CONNECTOR	AKP7225		R	1158,1159		RS1/16SS1501F				
X	101 CRYSTAL RESONATOR (28.322 MHz)	ASS7085		R	1314-1317,1352		RAB4CQ100J				
X	401 CRYSTAL RESONATOR (28.63636 MHz)	ASS7069		R	1327,1354-1361,1717		RAB4CQ220J				
X	501 CERAMIC RESONATOR (15.7 MHz)	XSS3004		R	1389,1729,1730,1740		RAB4CQ560J				
X	701 CRYSTAL RESONATOR (24.576 MHz)	XSS3003		R	1403,1404,1409,1410		RAB4CQ0R0J				
				R	1405,1406,1411,1412		RAB4CQ470J				

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
A	R	1701,1901,1902	RS1/10S0R0J	C	433,505,610,791		CKSSYB105K6R3
	R	1703	RS1/16SS1500F				
				C	439,440,1303,1704		DCH1201
	R	1706,1707	RS1/16SS9100F	C	441-443,445-449		CKSSYB104K10
	R	1718	RAB4CQ220J	C	461,502,504,506		CKSSYB104K10
	R	1726	RAB4CQ0R0J	C	511,551,552		CKSSYB104K10
	R	1741,1743,1748,1754	RAB4CQ560J	C	512,735,1033,1034		CKSSYB102K50
	R	1755	RAB4CQ560J				
				C	602-609,612,614		CKSSYB104K10
	R	1792-1794	RAB4CQ473J	C	613,934,935,937		CKSSYB103K16
B	R	1802,1803,1812,1813	RS1/16SS8200F	C	615,617,631,641		CKSSYB104K10
	R	1804,1814,1824,1834	RS1/16SS3900F	C	619-622,718,721		CKSSYB471K50
	R	1822,1823,1832,1833	RS1/16SS8200F	C	632,642,652,662		CCSSCH101J50
	R	1903,1904	RS1/16SS1001F				
				C	633,643,653,663		CCSSCH560J50
	R	1914,1915	RAB4CQ330J	C	651,661,671,681		CKSSYB104K10
	Other Resistors		RS1/16SS###J	C	672,682,951		CCSSCH101J50
				C	673,683		CCSSCH560J50
				C	701,702,704-709		CKSSYB104K10
CAPACITORS				C	710,742,743		CEVW100M16
	C	11,31,322,372	CKSRYB104K16	C	711-717,719,722		CKSSYB104K10
	C	12,32,1072	CKSQYB225K10	C	720,867,870,883		CEVW220M16
	C	21,106-108,110	CKSSYB104K10	C	723,936		CEVW470M6R3
	C	22,1702	CKSQYB475K6R3	C	724-734,736-739		CKSSYB104K10
	C	23,1703	CEVW221M4				
C	C	33	CEVW101M6R3	C	744-750,792,860		CKSSYB471K50
	C	101,102,301,302	DCH1165	C	801,803-805,1014		CKSRYB104K16
	C	103,104,303-305	CKSQYB106K6R3	C	802,807,1302,1305		CEVW101M16
	C	105,113,121,122	CKSSYB105K6R3	C	861-865,868,871		CKSSYB104K10
	C	109,111,131,203	CKSSYB103K16	C	866,869,881,895		CKSSYB471K50
	C	114-120,123-126	CKSSYB104K10	C	872,874,882		CKSSYB104K10
	C	127,463,740,1339	CCSSCH120J50	C	873		CEVW330M16
	C	128,462,741	CCSSCH100D50	C	875,1015,1046,1047		CCSRCH102J50
	C	129,130,133,306	CKSSYB105K6R3	C	891-894,900,911		CKSSYB104K10
D	C	132,134-139,201	CKSSYB104K10	C	897-899,912,921		CKSSYB471K50
	C	140-153,155,156	CKSSYB471K50	C	922,950,1081,1082		CKSSYB104K10
	C	157,401,402,503,1705,1906	VCH1234	C	932		VCH1268
	C	159,160,1400	ACH7306	C	938,1166,1313		CKSSYB103K16
	C	202	CEVW4R7M35	C	939		CCSSCH180J50
	C	204,310,360,412	CKSSYB103K16	C	940		CCSSCH150J50
	C	206-208,211,251	CKSSYB104K10	C	946		CSZS330M6R3
	C	210,333-336	CKSSYB471K50	C	1001		CKSQYB104K25
E	C	216-218,252,421	CKSSYB102K50	C	1002		CEVW101M25
	C	219,220,319,369	VCG1063	C	1003,1004,1021,1022		CCG1195
	C	253,307,309,312	CKSSYB104K10	C	1005,1011		CKSRYB682K25
	C	308,311,313-315	CKSSYB105K6R3	C	1006,1039		CCSRCH681J50
	C	316,317,324,357	CKSSYB104K10	C	1007,1029-1031,1041		CKSRYB104K25
	C	318,356,358,361	CKSSYB105K6R3	C	1008		CKSQYB105K16
	C	320,321,370,371	CKSRYB105K10	C	1009,1052,1151,1156		BCG1059
	C	325-332,375-382	VCG1066	C	1023,1027		CCG1233
F	C	351,352	DCH1165	C	1024,1026		CKSQYB475K10
	C	353-355,417,430	CKSQYB106K6R3	C	1025,1028		CCSRCH101J50
	C	359,362,366,367	CKSSYB104K10	C	1032		CKSRYB105K10
	C	363-365,368,404	CKSSYB105K6R3	C	1035,1040		CKSRYB223K16
	C	374,403,405-411	CKSSYB104K10	C	1036		CKSRYB222K50
	C	383-386,481-485	CKSSYB471K50	C	1037		CCSRCH470J50
	C	413	CKSSYB823K10	C	1038		CCSRCH121J50
	C	414,435,436,501	CKSSYB103K16	C	1042,1053		CKSRYB104K25
	C	415	CKSRYB824K10	C	1051		CKSQYB105K25
F	C	416	CKSSYB393K10	C	1054		CCSSCH220J50
	C	418,420,422-429	CKSSYB104K10	C	1056		CCSRCH151J50
	C	419,434,601,611	CEVW101M16	C	1057,1071,1099,1701		CKSRYB104K16
	C	431,437,438	CKSSYB104K10	C	1101-1104,1352,1363		VCG1063
	C	432,1157	CKSQYB106K6R3				

Mark No. Description**Part No.**

C 1152-1155,1158-1165
C 1167,1207,1208,1306

C 1168-1175,1323,1333
C 1301,1705,1906
C 1308-1312,1319-1322
C 1314-1318,1353-1362
C 1324-1332,1335-1338

C 1334,1343-1348,1350
C 1340
C 1341,1381-1384
C 1342,1708
C 1349,1917

C 1351
C 1364-1368,1385-1388
C 1369
C 1399
C 1401-1404,1711-1717

C 1405-1408,1748-1754
C 1706,1709,1904,1905
C 1710
C 1719-1721,1723-1727
C 1729-1736,1738,1739

C 1740,1741
C 1742
C 1743,1745,1746,1801
C 1747,1907-1915
C 1802,1803,1812,1813

C 1811,1821,1831,1861
C 1822,1823,1832,1833
C 1871,1916,1951
C 1901-1903
C 1918-1922

CKSSYB104K10
CKSSYB104K10

CKSSYB471K50
VCH1234
CKSSYB104K10
CKSSYB105K6R3
CKSSYB104K10

CKSSYB471K50
CCSSCH120J50
CKSSYB104K10
CEVW101M16
CCSSCH471J16

ACH7174
CKSSYB471K50
CKSRYB103K25
VCG1063
CKSSYB104K10

CKSSYB471K50
DCH1201
CKSRYB104K16
CKSSYB104K10
CKSSYB104K10

CCSSCK1R0C50
CKSSYB102K50
CKSSYB104K10
CKSSYB105K6R3
CCSSCH470J50

CKSSYB104K10
CCSSCH470J50
CKSSYB104K10
CKSQYB225K10
CKSSYB471K50

Mark No. Description**Part No.**

⚠ IC 1001

⚠ IC 1021
⚠ IC 1051
⚠ IC 1071
IC 1081
IC 1082

IC 1151
IC 1204
IC 1208
IC 1301
IC 1351

IC 1381,1383,1384,1402
IC 1382,1401,1403
IC 1404
IC 1701
⚠ IC 1702

IC 1703
IC 1901
⚠ IC 1902
IC 1903
IC 1951

Q 201
Q 351,1104,1203,1204
Q 352
Q 631,641,651,661
Q 671,681,1821

⚠ Q 1001
⚠ Q 1021,1022
Q 1281
D 351
D 551,1701

⚠ D 1001
D 1021,1022,1052
⚠ D 1023,1024
D 1051
D 1101-1104

D 1861

TPS54350PWP

LTC3850EGN
LT3505EMS8E
NJM2885DL1-05
TC7WH125FU
TC7WT125FU

SII9185ACTU
S-24CS02AFT
TC7MB3257FK
FLI2310-LF-CF
M12L64322A-6TG

TC74LCX541FTS1
TC7SZ125FU
TC74LCX541FTS1
UPD61111GM-100UEVA
NJM2885DL1-15

KA5SDKAS01TSN
K4H561638H-UCB3
S-1132B25-U5
NJM12904V
AYW7232

RT1P241M
DTC114YUA
UMB1N
2SA1602A
2SA1602A

RTQ045N03
SP8K1
HN1K02FU
UDZS5R1(B)
RB501V-40

RLZ6.8B
RB160VA-40
RLZ5.6B
RB160M-30
DAN202U

1SS352

**HDMI NETWORK ASSY (SC-LX71)****SEMICONDUCTORS**

⚠ IC 11
⚠ IC 21
⚠ IC 31
IC 101
IC 201

IC 202
IC 203
IC 204,205,208
IC 251
IC 252

IC 351
⚠ IC 352
IC 401
IC 402
IC 501

IC 502
IC 504
IC 505,911,1871
IC 601
IC 801

IC 861
IC 881
IC 891
IC 921,1861

NJM2846DL3-33
NJM2846DL3-18
NJM2886DL3-33
SII9135CTU
TC74VHC541FTS1

ICS571MLF
TC7WH74FU
TC7WH157FU
TC74VHC157FTS1
TC7SH08FUS1

SII9134CTU
NJM2872BF05
ADV7800BSTZ-80
TC7WHU04FU
PEG118A

AYW7254
BU4094BCFV
TC74VHC08FTS1
ADV7172KSTZ
AAT4618IGV-0.5-1

RTL8201CP-LF
AYW7255
HY57V281620FTP-6
TC74VHCT08AFTS1

MISCELLANEOUS

L 101-104,351-355 CHIP BEADS
L 105,106 CHIP SOLID INDUCTOR
L 201 INDUCTOR
L 202-204 CHIP SOLID INDUCTOR
L 207,208 CHIP SOLID INDUCTOR

L 251,252 CHIP SOLID INDUCTOR
L 356-359 COIL
L 401,402,404,406 CHIP BEADS
L 403,405 CHIP SOLID INDUCTOR
L 501,601 CHIP SOLID INDUCTOR

L 602 CHIP SOLID INDUCTOR
L 631,641,651,661 INDUCTOR
L 671,681,1821 INDUCTOR
L 701,702,805,861 INDUCTOR
L 704-707 CHIP FERRITE BEADS

L 801 CHIP FERRITE BEADS
L 802 COIL
L 862,871,881,891 INDUCTOR
L 863,864 COIL
L 911,936 INDUCTOR

ATL7010
QTL1013
CTF1379
QTL1013
QTL1013

QTL1013
ATH7022
ATL7010
QTL1013
ATL7002

ATL7002
ATL7015
ATL7015
CTF1357
ATF1211

VTL1169
VTH1043
CTF1357
VTH1056
CTF1357

Mark No. Description**Part No.****Mark No. Description****Part No.**

A

L 1001,1021,1051 CHIP BEADS ATL7010
 L 1002 POWER INDUCTOR ATH7059
 L 1022 INDUCTOR CTH1261
 L 1023 INDUCTOR ATH7060
 L 1052 INDUCTOR ATH7061

R 851-854,1906,1907 RAB4CQ330J
 R 867 RS1/16S2001F
 R 868-871 RS1/16S49R9F
 R 919 RS1/10S102J
 R 1009,1056 RS1/16SS1002F
 R 1011 RS1/16SS2001F

■

L 1097-1099 INDUCTOR CTF1386
 L 1151-1153 CHIP BEADS ATL7010
 L 1301-1305 CHIP SOLID INDUCTOR ATL7002
 L 1351,1901 CHIP SOLID INDUCTOR ATL7002
 L 1381-1384 CHIP SOLID INDUCTOR QTL1013

R 1016,1029,1030,1057 RS1/10S0R0J
 R 1021,1022,1025,1026 ACN7160
 R 1023 RS1/16SS4702F
 R 1024,1027 RS1/16SS1502F
 R 1028 RS1/16SS1202F

B

L 1401-1404 CHIP SOLID INDUCTOR QTL1013
 L 1701-1706,1902 FERRITE CORE VTF1091
 L 1861,1871 CHIP SOLID INDUCTOR QTL1013
 L 1951 FERRITE CORE VTF1091
 JA 351,1101-1104 HDMI CONNECTOR AKP7225

R 1055 RS1/16SS6802F
 R 1071-1074,1905 RS1/16S0R0J
 R 1158,1159 RS1/16SS1501F
 R 1314-1317,1352 RAB4CQ100J
 R 1327,1354-1361,1717 RAB4CQ220J

■

JA 701 RJ45 CONNECTOR TRNS VKN2078
 X 101 CRYSTAL RESONATOR (28.322 MHz) ASS7085
 X 401 CRYSTAL RESONATOR (28.63636 MHz) ASS7069
 X 501 CERAMIC RESONATOR (15.7 MHz) XSS3004
 X 701 CRYSTAL RESONATOR (24.576 MHz) XSS3003

R 1389,1729,1730,1740 RAB4CQ560J
 R 1403,1404,1409,1410 RAB4CQ0R0J
 R 1405,1406,1411,1412 RAB4CQ470J
 R 1701,1901,1902 RS1/10S0R0J
 R 1703 RS1/16SS1500F

C

X 702 CRYSTAL RESONATOR (25.0 MHz) ASS7084
 X 791 CRYSTAL OSCILLATOR (32.768 kHz) ASS1172
 X 1301 CRYSTAL RESONATOR (13.5 MHz) ASS7070
 X 1701 CRYSTAL RESONATOR (27.0000 MHz) BSS1123
 CN 201 23P SOCKET XKP3083

R 1706,1707 RS1/16SS9100F
 R 1718 RAB4CQ220J
 R 1726 RAB4CQ0R0J
 R 1741,1743,1748,1754 RAB4CQ560J
 R 1755 RAB4CQ560J

■

CN 502 13P SOCKET XKP3077
 CN 601 CONNECTOR CKS4898
 CN 801 CONNECTOR AKM1276
 CN 902 5P CONNECTOR VKN1374
 CN 1001 CONNECTOR CKS3815

R 1792-1794 RAB4CQ473J
 R 1822,1823 RS1/16SS8200F
 R 1824 RS1/16SS3900F
 R 1903,1904 RS1/16SS1001F
 R 1914,1915 RAB4CQ330J

D

RESISTORS

CN 1002 15P SOCKET XKP3078
 CN 1003 CONNECTOR CKS1755
 CN 1701 22P CONNECTOR VKN1426
 CN 1702 CONNECTOR VKN2040
 JH 1 PCB BINDER VEF1040

Other Resistors RS1/16SS###J

CAPACITORS

C 11,31,372,801 CKSRYB104K16
 C 12,32,1072 CKSQYB225K10
 C 21,106-108,110 CKSSYB104K10
 C 22,1702 CKSQYB475K6R3
 C 23,1703 CEVW221M4

■

R 101,103-105,108 RAB4CQ100J
 R 115,204 RAB4CQ680J
 R 119,320,322-330 RAB4CQ473J
 R 130-132,134-136 RAB4CQ100J
 R 141-144 ACN1275

C 33 CEVW101M6R3
 C 101,102,351,352 DCH1165
 C 103,104,353-355 CKSQYB106K6R3
 C 105,113,121,122 CKSSYB105K6R3
 C 109,111,131,203 CKSSYB103K16

E

R 355,609,612 RS1/16SS6800F
 R 428,429,789 RAB4CQ330J
 R 432,433,1385-1388 RAB4CQ470J
 R 434,437,442,443 RAB4CQ473J
 R 446,447,450,708 RAB4CQ473J

C 114-120,123-126 CKSSYB104K10
 C 127,463,740,1339 CCSSCH120J50
 C 128,462,741 CCSSCH100D50
 C 129,130,133,356 CKSSYB105K6R3
 C 132,134-139,201 CKSSYB104K10

■

R 464,465,467,468 RAB4CQ472J
 R 480-483,741,761 RAB4CQ220J
 R 596 RAB4CQ101J
 R 610,611 RS1/16SS5601F
 R 633,643,653,663 RS1/16SS2200F

C 140-153,155,156 CKSSYB471K50
 C 157,401,402,503,1705,1906 VCH1234
 C 159,160,1400 ACH7306
 C 202 CEVW4R7M35
 C 204,360,412,414 CKSSYB103K16

F

R 634,644,654,664 RS1/16SS4700F
 R 673,683,1702 RS1/16SS2200F
 R 674,684 RS1/16SS4700F
 R 723 RS1/16SS101F
 R 724 RS1/16S3900F

C 206-208,211,251 CKSSYB104K10
 C 210,383-386 CKSSYB471K50
 C 216-218,252,421 CKSSYB102K50
 C 219,220,369 VCG1063
 C 253,357,359,362 CKSSYB104K10

F INTERFACE ASSY
SEMICONDUCTORS

H 7101,7102 FUSE CLIP
J 7061 JUMPER WIRE
KN 7001-7006 WRAPPING TERMINAL
CN 7001 7P PLUG
CN 7002,7005,7006 CONNECTOR

CN 7003,7004 CONNECTOR
CN 7007 PLUG
CN 7008,7014,7021 23P PLUG
CN 7009,7013 CONNECTOR
CN 7011 15P PLUG

D3SBA20(B)

AKR7001
D20PDY0415E
VNF1084
XKP3063
CKS1730

CKS1727
CKS1724
XKP3071
CKS3813
XKP3067

Mark No. Description**Part No.****Mark No. Description****Part No.**

CN 7012 CONNECTOR
CN 7031 27P CONNECTOR
CN 7032,7042 CONNECTOR
CN 7041 CONNECTOR
CN 7051 CONNECTOR

CKS1721
VKN1258
CKS3384
CKS3386
CKS3382

C 6019,6020,6022,6023
C 6025

C 6026,6027,6111,6112
C 6028,6038,6039
C 6043-6045,6050,6051
C 6046,6047,6058,6059
C 6055-6057

CKSRYB103K50
CEAT3R3M50

CKSRYB103K50
CEAT101M10
CEAT101M10
CKSRYB105K10
CEAT101M10

RESISTORS

All Resistors

RS1/16S###J

MISCELLANEOUS

JH 7002-7005 PCB BINDER
JH 7061 4P CABLE HOLDER
JP 7071 4P HOUSING ASSY
JP 7102 HOUSING ASSY
JP 7103 HOUSING ASSY

VEF1040
51048-0400
ADX7676
ADX7635
ADX7634

C 6061,6065,6069,6071
C 6064,6070,6072,6074
C 6068
C 6073,6075,6085,6087
C 6084,6086,6088,6091

CCSRCH102J50
CKSRYB105K10
CKSRYB105K16
CCSRCH102J50
CKSRYB105K10

JP 7104 HOUSING ASSY

ADX7636

C 6089,6092,6095,6100
C 6090,6093
C 6094,6099,6101,6105
C 6096,6103,6104,6143
C 6097,6098

CCSRCH102J50
ACH1479
CKSRYB105K10
CEAT101M16
CKSRYB224K10

CAPACITORS

C 7101
C 7102,7105-7109
C 7104

CFTLA394J50
CCSRCH102J50
CEAT682M25

C 6102,6106,6108,6138
C 6107,6137,6147,6148
C 6110,6115-6117
C 6113,6114,6121-6124
C 6125-6136,6184

CCSRCH102J50
CKSRYB105K10
CKSRYB104K16
CCSRCH100D50
CKSRYB103K50

G COMPONENT ASSY

SEMICONDUCTORS

IC 6001-6004
IC 6005
IC 6006
IC 6007,6008
IC 6009,6012

TC74LVX4052FT
TC74LVX4053FT
LA7213
NJM2581M
TC4094BFN

C 6144,6174,6176,6177
C 6146,6149,6150,6153
C 6151,6152,6155,6157
C 6154,6156,6159,6160
C 6158,6161,6162,6165

CEAT101M16
CCSRCH102J50
CKSRYB105K10
CCSRCH102J50
CKSRYB105K10

IC 6010,6013-6015
Q 6001-6007,6017,6018
Q 6008,6019,6021

TC74VHCT08AFTS1
2SA1602A
RT1N241M
2SC4154
2SA1602A

C 6163,6164,6172,6173
C 6175,6181,6197-6199
C 6179,6180,6182,6183
C 6185,6187
C 6186,6188,6196

CCSRCH102J50
CCSRCH100D50
CEAT101M16
CKSRYB105K10
CCSRCH102J50

⚠ Q 6015
⚠ Q 6016

C 6189-6191

CEAT100M50

Q 6020
D 6001
D 6002,6003
D 6010

2SA1602A
1SS352
RR264M-400
UDZS5R1(B)

H COMPOSITE S ASSY

SEMICONDUCTORS

IC 6501,6512
IC 6502,6513
IC 6505,6506,6508,6509
IC 6510
IC 6511

TC4094BFN
LA7109
TC74HC4051AFT
LA7213
TC74HC4053AFT

IC 6516-6518
Q 6501-6508
Q 6509
Q 6510
Q 6516,6524,6525

NJM2505AF
IMX25
2SA1602A
RT1N241M
2SC4154

D 6501
D 6502,6503
D 6504-6508

1SS352
RR264M-400
DAN217U

MISCELLANEOUS

L 6001 CHIP SOLID INDUCTOR
JA 6001 PIN JACK(3P)
JA 6002,6003 PIN JACK(6P)
JA 6004 JACK
KN 6001 SCREW PLATE

ATL7002
AKB7203
AKB7204
AKN-209
VNE1948

CN 6002 PLUG
CN 6004 13P PLUG
CN 6006 16P CONNECTOR
CN 6007 5P HOUSING ASSY
CN 6008 5P HOUSING ASSY

CKS3545
XKP3066
VKN1420
ADX7654
ADX7674

CN 6009 30P SOCKET

XKP3092

RESISTORS

R 6007,6012,6017
Other Resistors

RS1/16S1103D
RS1/16S###J

CAPACITORS

C 6004,6048,6049,6060
C 6012,6013,6016,6017
C 6018,6021,6024

CCSRCH102J50
CKSRYB103K50
CEAT100M50

MISCELLANEOUS

JA 6501,6502 PIN JACK(4P)
JA 6503 COMB.JACK(S+1P)
JA 6504-6507 COMB.JACK(2S+2P)
JA 6509 JACK
KN 6501-6503 SCREW PLATE

XKB3017
AKB7199
AKB7200
XKB3069
VNE1948

CN 6501 CONNECTOR
CN 6502 19P CONNECTOR
CN 6503 PLUG

CKS3374
52044-1945
CKS3545

Mark	No.	Description	Part No.
<u>RESISTORS</u>			
	All Resistors		RS1/16S###J
<u>CAPACITORS</u>			
C	6501,6503,6509,6547		CKSRYPB105K10
C	6502,6504,6506,6508		CCSRCH102J50
C	6505,6507,6670-6673		CKSRYPB105K16
C	6510,6548,6550-6555		CCSRCH102J50
C	6511,6512,6519,6520		CCSRCH101J50
C	6517,6518,6525,6526		CCSRCH331J50
C	6527,6528,6535,6536		CCSRCH101J50
C	6533,6534,6541,6542		CCSRCH331J50
C	6544,6599,6600,6605		CKSRYPB103K50
C	6549,6556,6558,6567		CEAT101M10
C	6557,6559,6566,6568		CKSRYPB104K16
C	6560-6565,6576,6578		CCSRCH181J50
C	6581,6586,6587,6601		CEAT101M10
C	6584,6585		CCSRCH181J50
C	6598		CEAT100M50
C	6602-6604,6641,6643		CKSRYPB104K16
C	6606,6608,6609,6611		CKSRYPB103K50
C	6607,6610,6613		CEAT220M50
C	6612,6648,6694,6698		CKSRYPB103K50
C	6620,6621,6662-6667		CEAT101M16
C	6624		CKSRYPB105K10
C	6625,6634-6639,6660		CCSRCH102J50
C	6640,6642		CEAT101M10
C	6650-6655,6689		CCSRCH100D50
C	6661,6668,6669,6674		CCSRCH102J50
C	6675,6679-6681		CCSRCH102J50
C	6676-6678,6682-6684		CKSRYPB105K16
C	6685-6687,6692,6693		CCSRCH102J50
C	6688		CEAT101M16
C	6690,6691		CKSRYPB105K16
C	6696,6697,6699,6700		CKSQYB106K6R
C	6701,6704		CKSRYPB103K50
C	6702,6703		CKSQYB106K6R
C	6708-6710,6712		CEAT220M50
C	6714-6716		CEAT220M50
C	6717-6722		CKSRYPB104K16

FRONT BRIDGE ASSY

MISCELLANEOUS

CN 7701 PLUG(6P)	KM200NA6R
CN 7704 19P CONNECTOR	52044-1945
CN 7705,7708 CONNECTOR	CKS3374
CN 7706 CONNECTOR	CKS3378
CN 7707 CONNECTOR	CKS3382
CN 7709 PLUG(3P)	KM200NA3
CN 7710 27P CONNECTOR	VKN1287
7701 PCB BINDER	VEF1040

RESISTORS

All Resistors RS1/16S###J

MISCELLANEOUS

JH 7702 PCB BINDER VEF1040

CAPACITORS

C 7702.7704 CCSRCH102J50

Mark	No.	Description	Part No.
C	7703		CKSRYP103K50
C	7711-7714		CCSRCH100D50
C	7715		CCSRCH181J50

J V-BRIDGE ASSY
MISCELLANEOUS

CN 8601,8602 CONNECTOR CKS3573

CAPACITORS

C 8602-8604 CKSRYB103K50

K **DISPLAY ASSY**
SEMICONDUCTORS

IC 8001	PDC179A8
IC 8002	GP1UE274XKC1
 IC 8004	S-1200B33-M5
IC 8201	PE5615A
Q 8001-8007	RT1N431M
Q 8009	2SA1602A
Q 8010	RT1N241M
Q 8012	2SK2034
D 8001,8003,8005,8007	SLR-343VC(NPQ)
D 8009,8013	SLR343BC4T(JKLM)
D 8011	SLR343WBCT(MNPQ)
D 8015,8016,8202	1SS352
D 8017,8201	MC2848-11
D 8019	RB751V-40
D 8020	1SS302

MISCELLANEOUS

L	8201	INDUCTOR	CTF1385
J	9201	3P JUMPER WIRE	D20PDD0305E
J	9203	4PJUMPER WIRE	D20PDD0410E
KN	8201	FL HOLDER(FE)	VNF1096
V	8201	FL TUBE DISPLAY	AAVZ113

S	8001-8012,8015-8020 SWITCH	VSG1024
S	8023 SWITCH	VSG1024
S	8024 ROTARY ENCODER	ASX7051
X	8002 CRYSTAL OSCILLATOR CRYSTAL OSC (15.0 MHz)	CSS1653
X	8201 CERAMIC RESONATOR (5.00 MHz)	VSS1142

CN 8001	29P CONNECTOR	VKN1872
CN 8002	9P CONNECTOR	VKN1269

RESISTORS

All Resistors RS1/16S###J

MISCELLANEOUS

JH 8001 3P CABLE HOLDER	51048-0300
JH 8003 4P CABLE HOLDER	51048-0400
JH 8201 6P HOUSING ASSY	ADX7675

CAPACITORS

C	8001-8007	CCSRCH101J50
C	8008	CCSRCH471J50
C	8009,8015,8016,8018	CKSRYB104K16
C	8012,8013	CCSRCH150J50
C	8014,8030,8031,8228	CKSRYB105K10

C 8019-8021,8202,8223	CKSRYB102K50
C 8022,8027,8034,8035	CKSRYB103K50
C 8023,8025,8026,8233	CCSRCH102J50
C 8024	ACH7272

Mark No. Description

C 8032,8033,8036,8224

C 8037
C 8201,8230
C 8203
C 8204-8220,8226
C 8221

C 8222,8232
C 8225,8227
C 8229
C 8231

Part No.

CKSRYB104K16

CCSRCH151J50
CKSRYB104K50
CEAT101M35
CKSRYB471K50
ACH7268

CKSRYB103K50
CKSRYB104K16
CKSRYB102K50
CEAT470M50

Mark No. Description

R 6890,6891,6910,6911

R 6930,6931
Other Resistors

CAPACITORS

C 6801,6802,6821,6822
C 6803,6804,6823,6824
C 6807,6808,6817,6818
C 6827,6828,6837,6838
C 6841,6842,6861,6862

C 6843,6844,6863,6864
C 6847,6848,6857,6858
C 6867,6868
C 6881,6882,6901,6902
C 6883,6884,6903,6904

C 6921,6922
C 6923,6924

Part No.

RN1/16SC10R0D
RN1/16SC10R0D
RS1/16S###J

CEJQ221M16
CFHXSQ103J16
CCSRCH102J50
CCSRCH102J50
CEJQ221M16

CFHXSQ103J16
CCSRCH102J50
CCSRCH102J50
CEJQ221M16
CFHXSQ103J16

CEJQ221M16
CFHXSQ103J16

L VOL ASSY**MISCELLANEOUS**

S 8401 ROTARY ENCODER
JH 8401 3P CABLE HOLDER

ASX7049
51048-0300

CAPACITORS

C 8401,8402

CKSRYB103K50

M POWER SW ASSY**SEMICONDUCTORS**

Q 8501
D 8502

RT1N431M
SLR343BC4T(JKLM)

MISCELLANEOUS

S 8501 SWITCH

VSG1024

RESISTORS

All Resistors

RS1/16S###J

MISCELLANEOUS

JH 8501 4P CABLE HOLDER

51048-0400

CAPACITORS

C 8501

CCSRCH101J50

N PRE BRIDGE ASSY**MISCELLANEOUS**

CN 6951 19P CONNECTOR
CN 6952 21P PLUG
CN 6953 FLOATING CONNECTOR

52044-1945
XKP3070
AKP7227

O ICE BUFFER ASSY**SEMICONDUCTORS**

IC 6800,6820,6840,6860
IC 6880,6900,6920

UPC4570G2-A
UPC4570G2-A

MISCELLANEOUS

J 6800 JUMPER WIRE
KN 6800,6801 SCREW PLATE
CN 6800 FLOATING CONNECTOR
CN 6810 19P PLUG
CN 6820 17P PLUG

D20PDY0410E
VNE1948
AKM7086
XKP3069
XKP3068

CN 6830 5P SOCKET
JH 6800 4P CABLE HOLDER

XKP3073
51048-0400

RESISTORS

R 6810,6811,6830,6831
R 6850,6851,6870,6871

RN1/16SC10R0D
RN1/16SC10R0D

P ICE INTERFACE ASSY**MISCELLANEOUS**

CN 3800 19P SOCKET
CN 3801 17P SOCKET
CN 3810,3840,3870 5P SOCKET
CN 3820,3830,3850,3860 PLUG

XKP3080
XKP3079
XKP3073
CKS1750

Q ICEPOWER AMP ASSY**SEMICONDUCTORS**

IC 4000,4001
IC 4003
IC 4004
IC 4005
IC 4006

BU7262SFVM
TC74VHC04FTS1
TC74VHC08FTS1
HA17431GLTPA
TC7WH08FU

⚠ IC 4101,4201,4301,4401
IC 4200,4400,4600,4700
IC 4202,4402,4602,4702
IC 4203,4403,4603,4703
IC 4204,4404,4604,4704

ICC3-AVR
ICC1-AVR
UPC4570G2-A
NJM4565MD
NJM12904V

⚠ IC 4501,4601,4701
⚠ IC 4900
Q 4000,4002,4003
Q 4001,4111,4211,4311
Q 4004,4006,4008,4010

ICC3-AVR
NJM1431AU
RT1N241M
2SA1602A
RT1P241M

Q 4005,4007,4009,4011
Q 4012,4013
Q 4014,4016
Q 4015,4109,4209,4309
⚠ Q 4100,4101,4200,4201

RT1N140M
RT3AMMM
HN1C01FU
2SC4154
PHB45NQ15T

Q 4102,4104,4202,4204
Q 4103,4105,4203,4205
Q 4106,4107,4206,4207
Q 4108,4208,4308,4408
Q 4110,4210,4310,4410

2SC5738
2SA2061
2SA1682
2SD2704K
2SA1514K

Q 4112,4312,4512,4712
⚠ Q 4300,4301,4400,4401
Q 4302,4304,4402,4404
Q 4303,4305,4403,4405
Q 4306,4307,4406,4407

RT1N140M
PHB45NQ15T
2SC5738
2SA2061
2SA1682

Q 4409,4509,4609,4709
Q 4411,4511,4611,4711

2SC4154
2SA1602A

Mark No. Description**Part No.****Mark No. Description****Part No.**

A

R 4546,4646,4746

RS1/16S3902F

C 4141,4142,4241,4242

CCG1245

R 4547-4549,4561,4562

ACN7165

C 4143-4146,4243-4246

CCG1248

R 4551,4552,4651,4652

ACN7162

C 4147,4148,4215,4218

CKSRYB105K10

R 4553,4653,4753

RS1/10S334J

C 4149,4150,4249,4250

ACH7304

R 4554,4654,4754

ACN7161

C 4155,4255,4355,4455

CKSYB475K25

R 4555,4655,4755

RS1/10S1502F

C 4157,4257,4357,4457

CKSRYB222K50

R 4563,4663,4763,4863

RS1/4SA1053F

C 4160,4260,4360,4460

CCSRCH102J50

R 4564,4664,4764,4864

RS1/16S3301F

C 4213,4217,4312,4313

ACH1479

R 4566,4666,4766,4900

RS1/16S1002F

C 4220,4230,4247,4248

CKSRYB105K10

R 4568,4668,4768

RS1/16S2202F

C 4221,4229,4252,4253

CKSRYB104K16

R 4569,4669,4769

RS1/16S1202F

C 4258,4321,4329,4352

CKSRYB104K16

R 4577,4677,4777

RS1/4SA2002F

C 4304,4305,4404,4405

ACG7069

R 4625,4667,4723,4725

RS1/16S1001F

C 4306,4307,4406,4407

ACG7072

R 4633,4635,4656,4676

RS1/16S1801F

C 4315,4318,4320,4330

CKSRYB105K10

R 4647-4649,4661,4662

ACN7165

C 4316,4351,4416,4451

CKSRYB105K16

R 4700,4701

RN1/16SE1000D

C 4317,4412,4413,4417

ACH1479

R 4702,4703

RN1/16SE9100D

C 4322,4328,4422,4428

ACG7073

R 4704,4705

RN1/16SE1001D

C 4331,4332,4431,4432

CKSQYB224K25

R 4726,4727

RS1/16S1501F

C 4335-4338,4435-4438

ACG7065

R 4733,4735,4756,4776

RS1/16S1801F

C 4341,4342,4441,4442

CCG1245

R 4745,4750

RS1/10S1002F

C 4343-4346,4443-4446

CCG1248

R 4747-4749,4761,4762

ACN7165

C 4347,4348,4415,4418

CKSRYB105K10

R 4751,4752

ACN7162

C 4349,4350,4449,4450

ACH7304

R 4767

RS1/16S1001F

C 4353,4356,4421,4429

CKSRYB104K16

R 4901

RS1/16S3301F

C 4420,4430,4447,4448

CKSRYB105K10

R 4902

RS2LMF682J

C 4452,4453,4458,4521

CKSRYB104K16

Other Resistors

RS1/16S###J

C 4500,4600,4700

CFTNA104J2A

C 4501,4601,4701

CFTNA274J2A

C 4504,4505,4604,4605

ACG7069

C 4506,4507,4606,4607

ACG7072

CAPACITORS

C 4001-4004,4011-4021

CCSRCH102J25

C 4508,4608,4708,4808

CEHAT221M25

C 4005,4006,4026,4027

CKSRYB104K16

C 4509,4609,4709,4809

CFHXSQ103J16

C 4010,4036,4916,4917

CEHAT331M10

C 4512,4513,4517,4612

ACH1479

C 4022,4025,4029,4040

CKSRYB105K10

C 4514,4614,4714

ACG7068

C 4023

CKSYB106K10

C 4515,4518,4520,4530

CKSRYB105K10

D

C 4024

CEHAT101M10

C 4516,4551,4616,4651

CKSRYB105K16

C 4028,4926

CKSRYB103K25

C 4519,4619,4719

CKSQYB474K16

C 4031-4035,4041,4121

CKSRYB104K16

C 4522,4528,4622,4628

ACG7073

C 4100,4200,4300,4400

CFTNA104J2A

C 4523,4623,4723

ACG7066

C 4101,4201,4301,4401

CFTNA274J2A

C 4524,4624,4724

ACG7078

E

C 4104,4105,4204,4205

ACG7069

C 4525,4625,4725

ACG7071

C 4106,4107,4206,4207

ACG7072

C 4526,4626,4726

ACG7079

C 4108,4208,4308,4408

CEHAT221M25

C 4527,4627,4727

ACG7070

C 4109,4209,4309,4409

CFHXSQ103J16

C 4529,4552,4553,4556

CKSRYB104K16

C 4112,4113,4117,4212

ACH1479

C 4531,4532,4631,4632

CKSQYB224K25

E

C 4114,4214,4314,4414

ACG7068

C 4533,4633,4733

ACG7064

C 4115,4118,4120,4130

CKSRYB105K10

C 4534,4634,4734

ACG7063

C 4116,4151,4216,4251

CKSRYB105K16

C 4535-4538,4635-4638

ACG7065

C 4119,4219,4319,4419

CKSQYB474K16

C 4541,4542,4641,4642

CCG1245

C 4122,4128,4222,4228

ACG7073

C 4543-4546,4643-4646

CCG1248

E

C 4123,4223,4323,4423

ACG7066

C 4547,4548,4615,4618

CKSRYB105K10

C 4124,4224,4324,4424

ACG7078

C 4549,4550,4649,4650

ACH7304

C 4125,4225,4325,4425

ACG7071

C 4555,4655,4755

CKSYB475K25

C 4126,4226,4326,4426

ACG7079

C 4557,4657,4757,4857

CKSRYB222K50

C 4127,4227,4327,4427

ACG7070

C 4560,4660,4760,4860

CCSRCH102J50

F

C 4129,4152,4153,4156

CKSRYB104K16

C 4613,4617,4712,4713

ACH1479

C 4131,4132,4231,4232

CKSQYB224K25

C 4620,4630,4647,4648

CKSRYB105K10

C 4133,4233,4333,4433

ACG7064

C 4621,4629,4652,4653

CKSRYB104K16

C 4134,4234,4334,4434

ACG7063

C 4658,4721,4729,4752

CKSRYB104K16

C 4135-4138,4235-4238

ACG7065

C 4704,4705

ACG7069

5	6	7	8	
Mark No. Description	Part No.	Mark No. Description	Part No.	
C 4706,4707	ACG7072	JH 8701 PCB BINDER	VEF1040	
C 4715,4718,4720,4730	CKSRYB105K10	RESISTORS		
C 4716,4751,4912,4913	CKSRYB105K16	R 8702	RD1/4MUF220J	A
C 4717,4817	ACH1479	Other Resistors	RS1/16S###J	
C 4722,4728	ACG7073			
C 4731,4732	CKSQYB224K25	CAPACITORS		
C 4735-4738	ACG7065	⚠ C 8701,8702	ACE7013	
C 4741,4742,4927-4929	CCG1245	⚠ C 8704	ACG7039	
C 4743-4746	CCG1248	C 8711	CFTLA103J50	
C 4747,4748,4818,4847	CKSRYB105K10	C 8712-8715,8720	CCSRCH102J50	
		C 8716	CEAT332M25	
C 4749,4750	ACH7304	C 8717,8719	CKSRYB103K50	
C 4753,4756,4758	CKSRYB104K16	C 8718	CEAT221M25	B
C 4900-4905	ACH7305			
C 4908	CEHAT221M25			
C 4909,4924,4925	CKSRYB104K25			
C 4914,4915	CKSQYB104K16	U PRIMARY GUARD ASSY		
C 4920,4921	CKSQYB105K25	MISCELLANEOUS		
C 4930,4931	CCSRCH102J50	CN 5752 5P PLUG	XKP3062	
R ICE SHIELD ASSY		V REG ASSY		
MISCELLANEOUS		SEMICONDUCTORS		
KN 6990 SCREW PLATE	VNE1948	⚠ IC 7501,7611	NJM78M12FA	
JH 6990 4P JUMPER CONNECTOR	52147-0410	⚠ IC 7502	NJM79M12FA	
		⚠ IC 7521	NJM78M06FA	C
		⚠ IC 7601	NJM78M56FA	
		⚠ IC 7602	NJM79M05FA	
S ZOUT ASSY		⚠ D 7501-7504,7521,7522	1SR154-400	
SEMICONDUCTORS		D 7505,7506,7523,7603	1SS357	
Q 6401,6411	IMX25	⚠ D 7601	D3SBA20(B)	
		D 7602	1SS352	
MISCELLANEOUS		D 7604,7614	1SS357	
JA 6401 PIN JACK(4P)	XKB3017			
CN 6401 11P CONNECTOR	52044-1145	⚠ D 7611,7612,7621-7623	1SR154-400	
		D 7613	1SR154-400	
		D 7624	HZU6R2(B2)	
RESISTORS		D 7625	PTZ24(B)	D
All Resistors	RS1/16S###J			
		MISCELLANEOUS		
CAPACITORS		H 7501-7504,7601-7604 FUSE CLIP	AKR7001	
C 6401,6402,6411,6412	CCSRCH471J50	CN 7501,7601 5P TOP POST	B5B-EH	
C 6421,6423	CKSRYB103K50	CN 7502 PLUG(5P)	KM200NA5R	
		CN 7602 PLUG(5P)	KM200NA5E	
		CN 7621 PLUG(6P)	KM200NA6	
T PRIMARY ASSY		JH 7502,7601 PCB BINDER	VEF1040	
SEMICONDUCTORS		⚠ P 7521,7522 PROTECTOR(1A)	AEK7009	
⚠ IC 8711	NJM78M56FA	RESISTORS		
Q 8712	RT1N431M	R 7621	RS1/16S473J	E
D 8703,8704,8719	1SS352	⚠ Other Resistors	RD1/4MUF###J	
⚠ D 8711	S1WB(A)60SD			
D 8717	1SS357	CAPACITORS		
		C 7500,7520,7600,7634	CFTLA394J50	
D 8718	UDZS5R1(B)	C 7501	CEAT332M25	
		C 7502,7521	CEAT222M25	
MISCELLANEOUS		C 7505,7506,7522,7603	CKSRYB103K50	
⚠ L 8701 LINE FILTER	XTF3004	C 7507,7508	CEAT221M25	
H 8701,8702 FUSE CLIP	AKR7001			
⚠ JA 8701 AC INLET ASSY	ADX7464	C 7523	CEAT221M16	
KN 8701 WRAPPING TERMINAL	VNF1084	C 7601	CEAT472M16	
KN 8702,8703 SCREW PLATE	VNE1948	C 7602	CEAT222M16	
		C 7604,7613,7626	CKSRYB103K50	F
⚠ RY 8702 POWER RELAY	ASR7022	C 7605,7606,7624	CEAT101M16	
⚠ T 8701 STANDBY TRANSFORMER	ATT7040			
⚠ CN 8702 CONNECTOR(VH)	B3P5-VH			
CN 8711 PLUG(5P)	KM200NA5			

Mark No. Description

C 7611
C 7612
C 7614
C 7621
C 7622

C 7623
C 7625
C 7628,7632
C 7629

**W ICE REG ASSY
SEMICONDUCTORS**

⚠ IC 7251
⚠ IC 7252
⚠ IC 7271
⚠ IC 7272
⚠ Q 7201

⚠ Q 7202
Q 7203,7204
Q 7205,7222
⚠ Q 7211
⚠ Q 7212

Q 7221
Q 7241
Q 7242
⚠ D 7201-7204,7211,7212
D 7205,7206,7245

D 7213,7214
D 7215,7216
⚠ D 7241-7244,7251-7254
D 7247
⚠ D 7248

⚠ D 7249
D 7255,7256,7275,7276
⚠ D 7271-7274

MISCELLANEOUS

H 7201-7204,7241,7242 FUSE CLIP
H 7251-7254 FUSE CLIP
CN 7201 8P TOP POST
CN 7241 PLUG(2P)
CN 7251 PLUG(6P)

CN 7271 PLUG(4P)
CN 7302 PLUG(6P)
JH 7251-7253 PCB BINDER

RESISTORS

R 7211,7213
R 7241
R 7255,7256
Other Resistors

CAPACITORS

C 7200,7240,7250,7270
C 7201,7202
C 7211-7215,7219,7245
C 7217,7218,7242,7253
C 7221,7246

C 7241,7251,7252
C 7254,7273,7274
C 7255,7256
C 7271,7272

Part No.

CEAT102M35
CEAT471M35
CEAT100M50
CEANP101M35
CEAT101M35

CEAT221M35
CEAT470M50
CCSRCH102J50
CFTLA104J50

NJM78M12FA
NJM79M12FA
NJM78M05FA
NJM79M05FA
RSQ035P03

RSQ035N03
RT1N431M
RT1P431M
2SD1763A
2SB1186A

RT1N241M
2SD1763A
2SC4154
1SR154-400
1SS352

HZU7R5(B1)
1SR154-400
1SR154-400
UDZS12(B)
PTZ15(B)

HZU12(B2)
1SS357
1SR154-400

AKR7001
AKR7001
B8B-EH
KM200NA2
KM200NA6E

KM200NA4
KM200NA6R
VEF1040

RD1/4MUF102J
RS1/4S152J
RS1/10SOR0J
RS1/16S###J

CFTLA394J50
CEAT102M16
CEAT100M50
CKSRYB103K50
CEAT470M25

CEAT222M25
CKSRYB103K50
CEAT221M25
CEAT222M16

Mark No. Description

C 7275,7276

C 7277,7278

**X B DIODE ASSY
SEMICONDUCTORS**

⚠ D 7400,7401

MISCELLANEOUS

CN 7400 CONNECTOR
7400,7401 HEAT SINK B
7402,7403 SCREW
JP 7401 3P HOUSING ASSY

RESISTORS

R 7402
Other Resistors

CAPACITORS

C 7400,7401
C 7402,7403

**Y B REG ASSY
SEMICONDUCTORS**

⚠ IC 7300,7301
⚠ IC 7302,7303
⚠ Q 7300
⚠ Q 7301
Q 7302,7308

Q 7303,7307
Q 7304
Q 7306
Q 7309
Q 7310

D 7302,7303
D 7304,7307
D 7306,7309,7350,7352
D 7308,7310
D 7351

D 7353
D 7355
⚠ TH 7300

MISCELLANEOUS

H 7300-7303 FUSE CLIP
CN 7303 4P-TOP POST(VH)
CN 7306 PLUG(4P)
CN 7308 CONNECTOR
JH 7300 PCB BINDER

⚠ P 7300,7301 PROTECTOR(500MA)

RESISTORS

R 7302,7303
R 7306,7307
R 7308-7311
R 7312-7315
R 7318,7319

R 7322,7323
R 7324,7325
R 7326-7329
R 7332,7333

Part No.

CEAT221M16

CCSRCH102J50

LN6SB60-4003

B3P-VH
ANH1021
IBZ30P080FCC
ADX7649

RD1/4MUF100J
RS1/4SA###J

ACH7270
CFTLA104J2A

HA17431GLTPA
NJM2746V
2SD2083(Y)
2SB1383(Y)
2SD1857

2SB1236
RT1N241M
RT1P241M
2SC4154
2SA1602A

PTZ11(B)
UDZS2R4(B)
1SS352
1SR154-400
UDZS18(B)

UDZS20(B)
1SS352
PTFM04BB222Q2N34B0

AKR7001
B4P-VH
KM200NA4
B3P-VH
VEF1040

AEK7005

RS2LMF222J
RS2LMF472J
RS1/4SA333J
RN1/16SE2702D
RS1/10S473J

RS2LMF152J
RS1/10S100J
RS1LMF332J
RN1/10SE8202D

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Mark	No.	Description	Part No.
R	7334,7335		RN1/10SE6801D
R	7336,7337		RN1/10SE1800D
R	7386		RS1/4SA154J
R	7387		RS1/4SA393J
R	7388		RS1/4SA223J
R	7389		RS1/4SA473J
Other Resistors			RS1/16S###J
CAPACITORS			
C	7302,7303,7376-7379		CCSRCH102J50
C	7304-7307,7350		CKSRYB104K50
C	7310,7311		CKSRYB473K50
C	7318,7319		CCG1248
C	7320,7321		CEAT4R7M50
C	7324,7325		CEHAT470M2A
C	7326,7327		ACG7064
C	7380-7384		CKSRYB104K50
C	7386		CCSRCH102J50
Z DCDC ASSY			
SEMICONDUCTORS			
⚠ IC	3901		PQ1CG3032FZ
D	3901		RB050L-40
⚠ D	3902		PTZ6R8(B)
MISCELLANEOUS			
L	3901 INDUCTOR		ATH7052
CN	3901 CONNECTOR		B2B-EH-E
CN	3902 CONNRCTOR		B2B-EH-Y
	3900 HEAT SINK		ANH-309
	3901 SCREW		BBZ30P080FCC
JH	3901 PCB BINDER		VEF1040
RESISTORS			
R	3901		RN1/16SE1001D
R	3902		RN1/16SE3301D
Other Resistors			RS1/16S###J
CAPACITORS			
C	3901		CEHAZL471M25
C	3902		CKSYB105K25
C	3903		CKSRYB104K25
C	3905		CEHAZL221M10
C	3906,3910		CCSRCH102J50
C	3911		CFTLA394J50
AA HDMI RECT ASSY			
SEMICONDUCTORS			
⚠ D	8801		D5SBA20(B)
MISCELLANEOUS			
H	8801,8802 FUSE CLIP		AKR7001
CN	8801 3P TOP POST		B3B-EH
CN	8802 CONNECTOR		B2B-EH-R
CAPACITORS			
C	8800		CFTLA274J50
C	8801		ACH7286
C	8803		CCSRCH102J50

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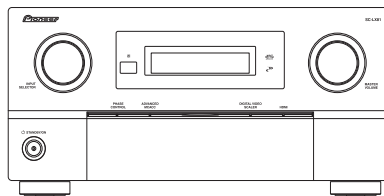
FM/AM TUNER UNIT

FM/AM TUNER UNIT has no service parts.

8

Pioneer

Service Manual



SC-LX81

ORDER NO.
RRV3841

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

SC-LX81

SC-LX71

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Type	Power Requirement	Remarks
SC-LX81	HYSXJ5	AC 220 V to 230 V	
SC-LX71	HYSXJ5	AC 220 V to 230 V	



For details, refer to "Important Check Points for good servicing".

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A [Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

- ① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

- ② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification (addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

- ③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

- ④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

- ⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

- ⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

- ⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

- ⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

- ⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

- ⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering. A
- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 °C.
Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron. ■

Do NOT use a soldering iron whose tip temperature cannot be controlled.

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden). B

The following lead-free solders are available as service parts:

- Parts numbers of lead-free solder:
GYP1006 1.0 in dia.
GYP1007 0.6 in dia.
GYP1008 0.3 in dia. ■

1.2 NOTES ON REPLACING PARTS

The part listed below is difficult to replace as a discrete component part.
When the part listed in the table is defective, replace whole Assy. C

ASSY NAME	PCB ASSY Part No.	Parts that is Difficult to Replace			
		Ref No.	FUNCTION	Part No.	Remarks
HDMI NETWORK ASSY	SC-LX81: AWX9234	IC101	HDMI Receiver	SII9135CTU	IC with heat-pad
	SC-LX71: AWX9235	IC701	MEDIA Processor	DM850E	IC with heat-pad
		IC791	iPod Co-Processor	341S2154	IC with heat-pad

■

D

■

E

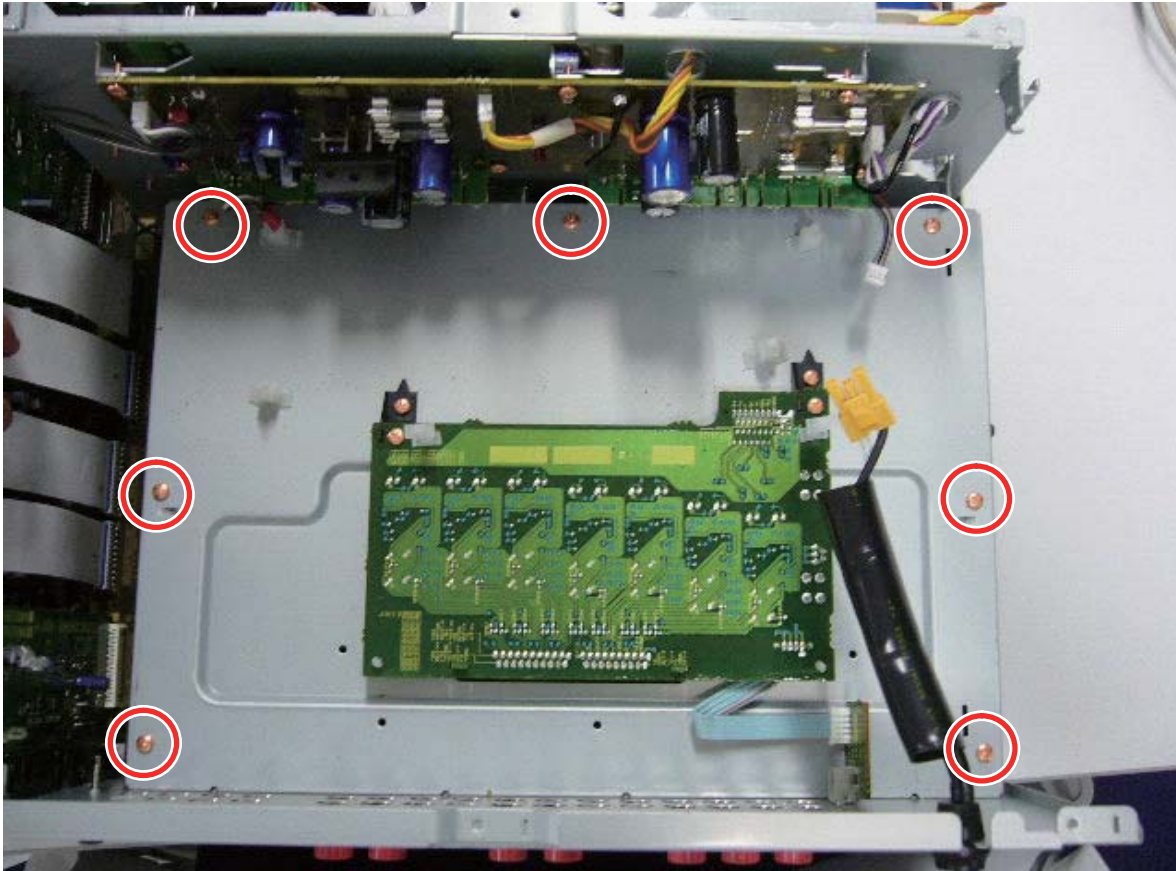
■

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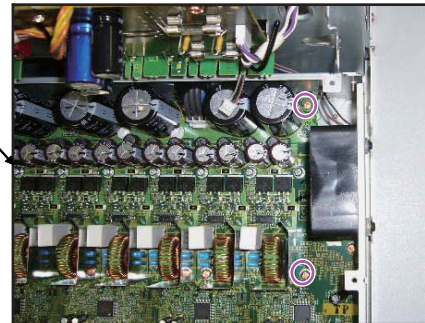
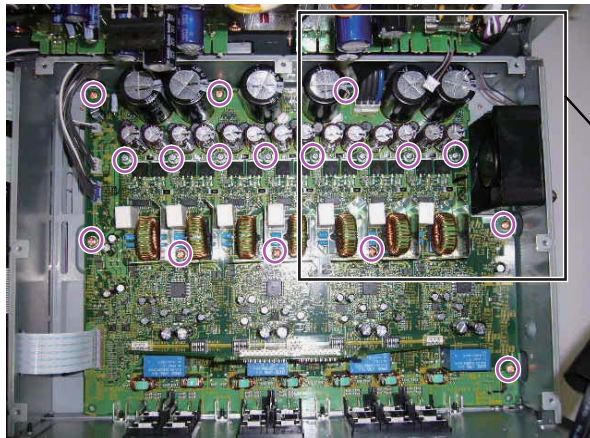
1.3 NOTES ON ASSEMBLING

When assembling the ICE amplifier block, please note the following points of screws to prevent from short circuit.

The following 7 points of screws must always be used AMZ30P060FTC



Points to be watched for swarf



If a screw at any of these points needs to be removed for service, be sure to check that the swarf is not on the screw before refastening.

2. SPECIFICATIONS

2.1 ACCESSORIES

A

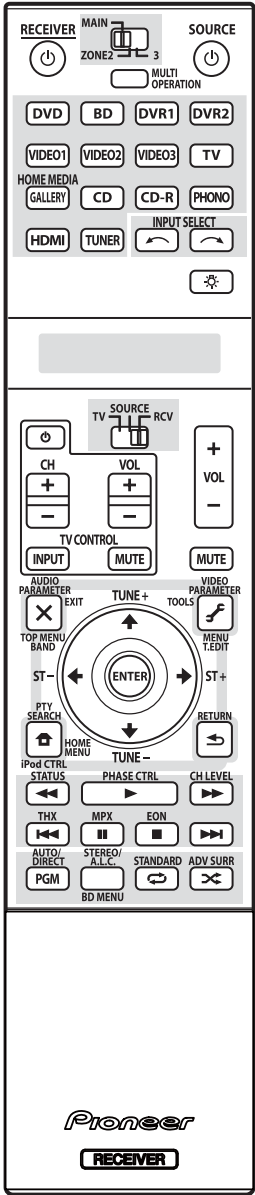
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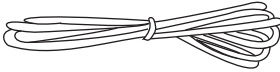
F



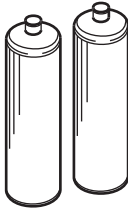
Remote Control Unit
(AXD7521)



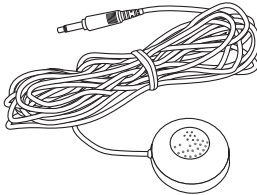
AM Loop Antenna
(ATB7013)



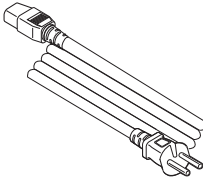
FM Wire Antenna
(ADH7030)



AA/IEC R6P
Dry Cell Batteries



Setup Microphone
(for Auto MCACC setup)
(APM7008)



Power Cord
(ADG7062)

- Caution Sheet SP
- Warranty Card
- Operating Instructions

SERVICE PARTS



SR+ mini-plug cable
(ADE7095)

2.2 SPECIFICATIONS

Specifications

Amplifier Section

Multi channel simultaneous power output (1 kHz, 1 %, 8 Ω)

7ch total 700 W (LX81), 630 W(LX71)

Continuous Power Output (Multichannel)
(DIN 1 kHz, THD 1 %, 6 Ω)

Front. 190 W + 190 W (LX81), 180 W + 180 W (LX71)

Center 190 W (LX81), 180 W (LX71)

Surround 190 W + 190 W (LX81)
 180 W + 180 W (LX71)

Surround back 190 W + 190 W (LX81)
 180 W + 180 W (LX71)

(DIN 1 kHz, THD 1 %, 8 Ω)

Front. 160 W + 160 W (LX81), 150 W + 150 W (LX71)

Center 160 W (LX81), 150 W (LX71)

Surround 160 W + 160 W (LX81)
 150 W + 150 W (LX71)

Surround back 160 W + 160 W (LX81)
 150 W + 150 W (LX71)

Total harmonic distortion. 0.05 %
(20 Hz to 20 kHz, 130 W, 8 Ω)

Rated Power Output – Stereo (20 Hz to 20 kHz, 0.09 %, 8 Ω)
..... 140 W+140 W

- The above specifications are applicable when the power supply is 230 V.

Audio Section

Input (Sensitivity/Impedance)	
PHONO MM	4.2 mV/47 k Ω
LINE	.335 mV/47 k Ω
Frequency Response (LINE).....	5 Hz to 100 000 Hz dB
Output (Level/Impedance)	
REC	.335 mV/2.2 k Ω
Signal-to-Noise Ratio (IHF, short circuited, A network)	
LINE	103 dB
Signal-to-Noise Ratio	
[DIN (continuous rated power output/50 mW)]	
LINE	92 dB/65 dB

Composite Video / S-Video Section

Input (Sensitivity/Impedance)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	.65 dB
Frequency Response	.5 Hz to 10 MHz

Component Video Section

Input (Sensitivity/Impedance)	1 Vp-p/75 Ω
Output (Level/Impedance)	1 Vp-p/75 Ω
Signal-to-Noise Ratio	.65 dB
Frequency Response	.5 Hz to 100 MHz

- Specifications and the design are subject to possible modifications without notice, due to improvements.

Manufactured under license from Dolby Laboratories.
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 symbol are trademarks of Dolby Laboratories.

HDMI Section

Input 19-pin
Output..... 19-pin (5 V, 100 mA)

Network Section

LAN terminal 10 BASE-T/100 BASE-TX

USB Section

USB terminal USB2.0 Full Speed

FM Tuner Section

Frequency Range 87.5 MHz to 108 MHz
Antenna Input 75 Ω unbalanced

AM Tuner Section

Frequency Range 531 kHz to 1602 kHz (9 kHz step)
Antenna Loop antenna

Miscellaneous

Power Requirements. AC 220 V to 230 V, 50 Hz/60 Hz
Power Consumption 330 W
In standby 0.5 W (HDMI Control OFF)
. 0.7 W (HDMI Control ON)
Dimensions 420 (W) mm x 200 (H) mm x 459.5 (D) mm
Weight (without package). 18.5 kg

Furnished Parts

Setup microphone (for Auto MCACC Setup)	1
AA/IEC R6P dry cell batteries	2
Remote control unit	1
AM loop antenna	1
FM wire antenna	1
Power cord	1
Warranty card	1
Operating instructions	



Note

- Specifications and the design are subject to possible modifications without notice, due to improvements.

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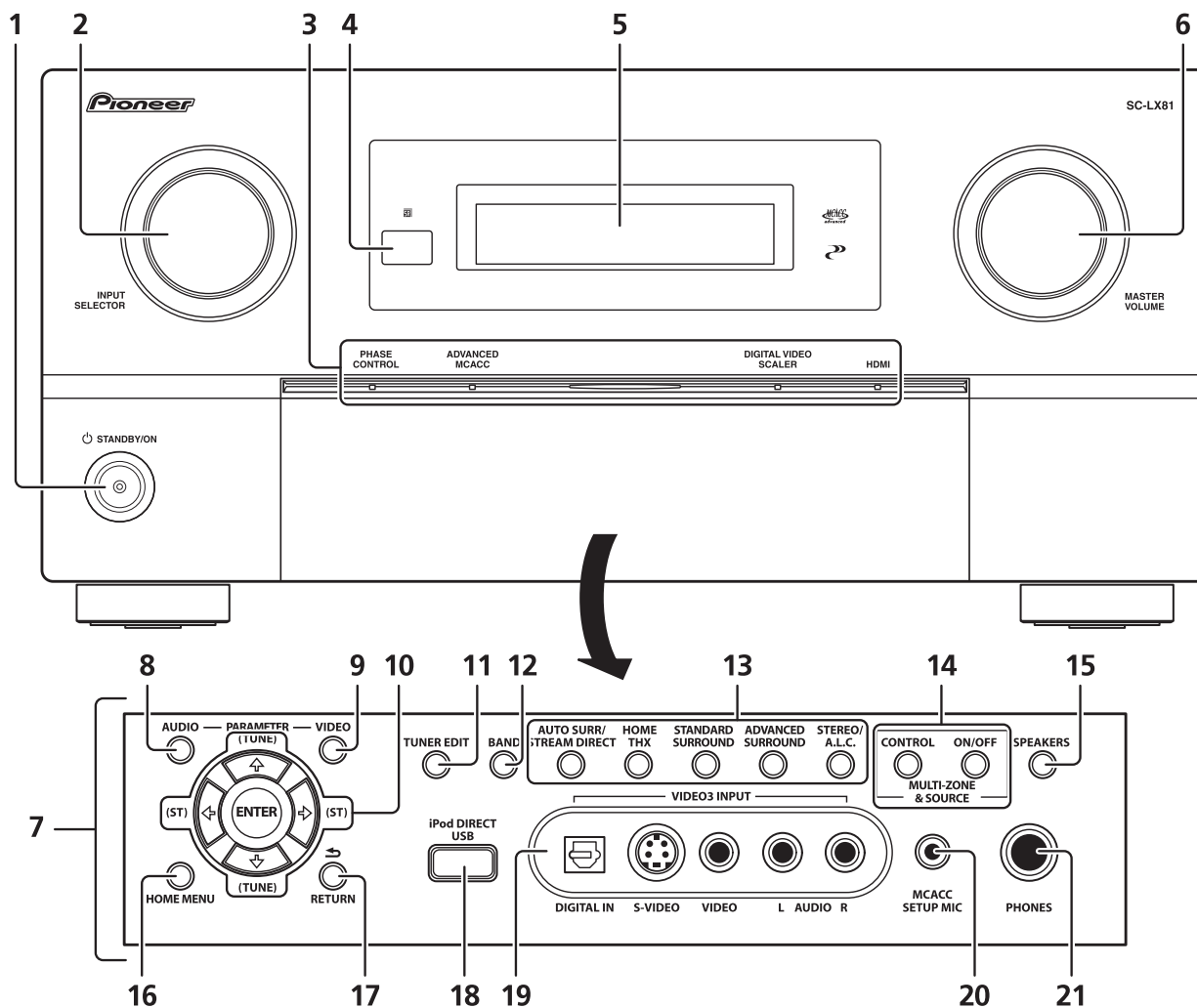
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2.3 PANEL FACILITIES

[1] Front Panel



1 **STANDBY/ON**

Switches the receiver between on and standby. Power indicator lights when the receiver is on.

2 **INPUT SELECTOR** dial

Use to select an input source.

- 3 PHASE CONTROL indicator** – Lights to indicate Phase Control or Full Band Phase Control is selected.
- ADVANCED MCACC indicator** – Lights when one of the Selecting MCACC presets is selected.
- DIGITAL VIDEO SCALER indicator** – Lights when Resolution is set to a setting other than **PURE** (for example, when the video input signal is upscaled).
- HDMI indicator** – Blinks when connecting an HDMI-equipped component; lights when the component is connected.

4 **Remote sensor**

Receives the signals from the remote control.

5 **Character display**

6 **MASTER VOLUME** dial

7 **Front panel controls**

To access the front panel controls, push gently on the lower third portion of the panel with your finger.

8 **AUDIO PARAMETER**

Use to access the Audio options.

9 **VIDEO PARAMETER**

Use to access the Video options.

10 **↑/↓/←/→ (TUNE/ST) /ENTER**

Use the arrow buttons when setting up your **HOME MENU**. Use **TUNE ↑/↓** to find radio frequencies and use **ST ←/→** to find preset stations.

11 **TUNER EDIT**

Use with **↑/↓/←/→/ENTER** to memorize and name stations for recall.

12 BAND

Switches between AM and FM radio bands.

13 Listening mode buttons

AUTO SURR/STREAM DIRECT – Press to select Auto Surround or Stream Direct listening.

HOME THX – Press to select a Home THX listening mode.

STANDARD SURROUND – Press for Standard decoding and to switch between the various **Dolby Pro** Logic IIx and Neo:6 options.

ADVANCED SURROUND – Use to switch between the various surround modes.

STEREO/A.L.C. – Switches between stereo playback, Auto level control stereo mode and Front Stage Surround Advance modes.

14 MULTI-ZONE & SOURCE controls

If you've made MULTI-ZONE connections use these controls to control the sub zone from the main zone.

15 SPEAKERS

Use to change the speaker system.

16 HOME MENU

Press to access the **HOME MENU**.

17 RETURN

Press to confirm and exit the current menu screen.

18 iPod DIRECT USB terminal

Use to connect your Apple iPod as an audio source, or connect a USB audio device for playback.

19 VIDEO 3 INPUT

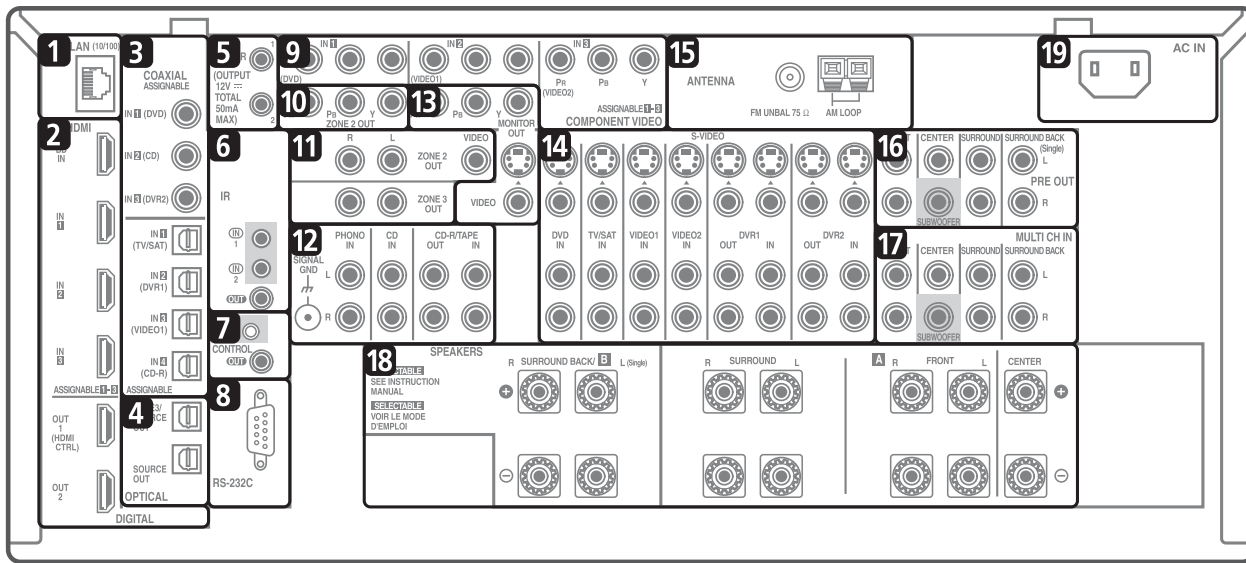
20 MCACC SETUP MIC jack

Use to connect the supplied microphone.

21 PHONES jack

Use to connect headphones. When the headphones are connected, there is no sound output from the speakers.

A [2] Rear Panel



C Caution

- Before making or changing the connections, switch off the power and disconnect the power cord from the power outlet. Plugging in should be the final step.

1 LAN (10/100) terminal

2 HDMI connectors (x6 (SC-LX81), x5 (SC-LX71))

Multiple inputs and one (SC-LX71) or two (SC-LX81) outputs for high-quality audio/video connection to compatible HDMI devices.

3 Optical and coaxial digital audio inputs (x7 (SC-LX81), x6 (SC-LX71))

Use for digital audio sources, including DVD players/recorders, digital satellite receivers, CD players, etc.

4 Optical digital audio outputs (x2)

Use for recording to a CD or MiniDisc recorder.

ZONE3/SOURCE OUT jack is also used for MULTI-ZONE connections.

5 12 V trigger jacks (total 50 mA max.) (x2)

Use to switch components in your system on and off according to the input function of the receiver.

6 Remote inputs/output

Use for connection to an external remote control sensor for use in a MULTI-ZONE setup, for example.

7 Control input/output

Use to connect other Pioneer components so that you can control all your equipment from a single IR remote sensor.

8 RS-232C connector

Use for connection to a PC for graphical output when using Advanced MCACC or Full Band Phase Control.

9 Component video inputs (x3)

Use the inputs to connect any video source that has component video output, such as a DVD player.

10 SC-LX81 only: ZONE 2 component video output

Use to connect monitors or TVs in a separate room.

11 MULTI-ZONE audio/video outputs

Use to connect a second or third amplifier and monitors or TVs in a separate room.

12 Stereo analog audio source inputs/(outputs) (x4)

Use for connection to audio sources such as CD players, tape decks, turntables, etc.

13 Composite, S-Video and Component monitor outputs

Use to connect monitors and TVs.

14 Audio/video source inputs/(outputs) (x8)

Use for connection to audio/visual sources, such as DVD players/recorders, VCRs, etc. Each set of inputs has jacks for composite video, S-Video and stereo analog audio.

15 AM and FM antenna terminals

Use to connect indoor or outdoor antennas for radio broadcasts.

16 Multichannel pre-amplifier outputs

Use to connect separate amplifiers for front, center, surround, surround back and subwoofer channels.

17 Multichannel analog audio inputs

7.1 channel inputs for connection to a DVD player with multichannel analog outputs.

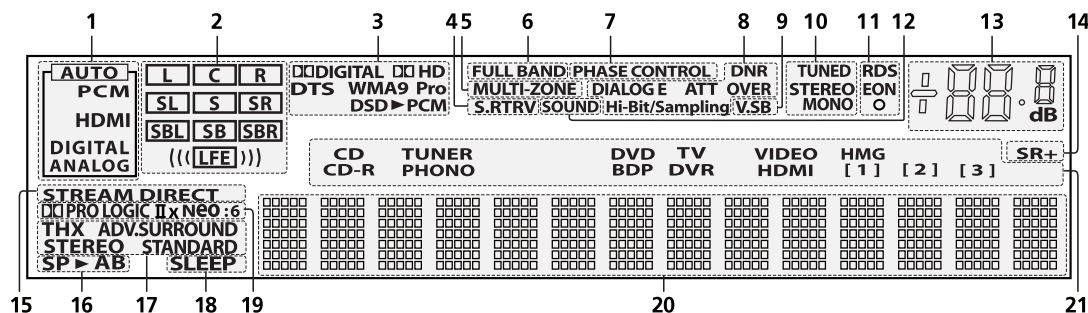
18 Speaker terminals

Use for connection to the main front, center, surround and surround back speakers.

19 AC power inlet

Connect the supplied power cord here.

[3] Display



1 SIGNAL indicators

Light to indicate the currently selected input signal.

AUTO lights when the receiver is set to select the input signal automatically.

2 Program format indicators

These change according to which channels are active in digital sources.

L – Left front channel

C – Center channel

R – Right front channel

SL – Left surround channel

S – Surround channel (mono)

SR – Right surround channel

SBL – Left surround back channel

SB – Surround back channel (mono)

SBR – Right surround back channel

LFE – Low frequency effects channel (the ((())) indicators light when an LFE signal is being input)

3 Digital format indicators

Light when a signal encoded in the corresponding format is detected (**DSD > PCM** lights during DSD (Digital Stream Direct) to PCM conversion with SACDs).

4 S.RTRV

Lights when the Sound Retriever is switched on.

5 MULTI-ZONE

Lights when the MULTI-ZONE feature is active.

6 FULL BAND

Lights when the Full Band Phase Control is switched on.

7 PHASE CONTROL

Lights when the Phase Control or Full Band Phase Control is switched on.

8 Sound processing indicators

Light according to the active Audio parameter(s) and/or **ANALOG ATT**.

9 V.SB

Lights during Virtual surround back processing.

10 TUNER indicators

TUNED – Lights when a broadcast is being received.

STEREO – Lights when a stereo FM broadcast is being received in auto stereo mode.

MONO – Lights when the mono mode is set using **MPX**.

11 EON/RDS indicators

EON – Lights when the EON mode is set (flashes during EON reception). The **o** indicator lights when the current station carries the EON service.

RDS – Lights when an RDS broadcast is received.

12 SOUND

Lights when any of the Midnight, Loudness or tone controls feature is selected.

13 Master volume level

Shows the overall volume level. **-80dB** indicates the minimum level, and **+12dB** indicates the maximum level.

14 SR+

Lights when the SR+ mode is switched on.

15 STREAM DIRECT

Lights when Direct/Pure Direct is selected.

16 Speaker indicators

Lights to indicate the current speaker system, **A** and/or **B**.

17 Listening mode indicators

THX – Lights when one of the Home THX modes is selected.

ADV.SURROUND – Lights when one of the Advanced Surround modes has been selected.

STEREO – Lights when stereo listening is switched on.

STANDARD – Lights when one of the Standard Surround modes is switched on.

18 SLEEP

Lights when the receiver is in sleep mode.

19 Matrix decoding format indicators

PRO LOGIC IIx – This lights to indicate **PRO** Logic II / **PRO** Logic IIx decoding.

Neo:6 – When one of the Neo:6 modes of the receiver is on, this lights to indicate Neo:6 processing.

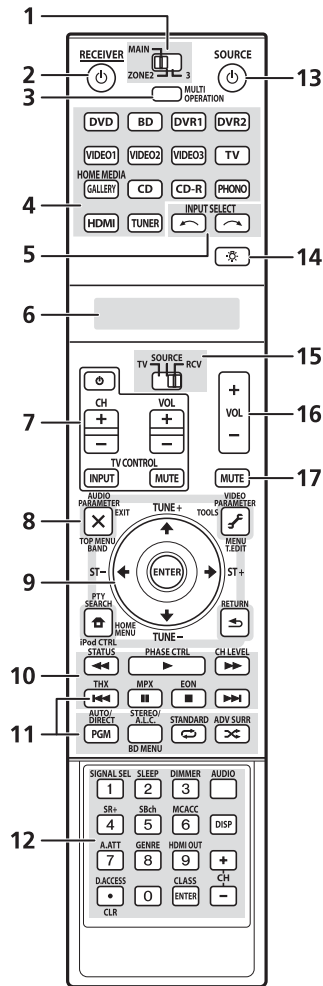
20 Character display

Displays various system information.

21 Input source indicators

Light to indicate the input source you have selected.

A [4] Remote Control



The remote has been conveniently color-coded according to component control using the following system:

- **White** – Receiver control, TV Control
- **Blue** – Other controls

1 MULTI-ZONE operation selector switch

Switch to perform operations in the main zone, zone 2 and zone 3.

2 RECEIVER

This switches between standby and on for this receiver.

3 MULTI OPERATION

Use this button to perform multi operations.

4 Input source buttons

Press to select control of other components.

F 5 INPUT SELECT

Use to select the input source.

6 Character display (LCD)

This display shows information when transmitting control signals.

The following commands are shown when you're setting the remote to control other components:

SETUP – Indicates the setup mode, from which you choose the options below.

PRESET –

LEARNING –

MULTI OP –

SYS OFF –

DIRECT F –

RENAME –

ERASE –

RESET –

READ ID –

7 TV CONTROL buttons

These buttons are dedicated to control the TV assigned to **TV** operation selector switch. Thus if you only have one TV to hook up to this system assign it to the **TV** operation selector switch.

 – Use to turn on/off the power of the TV.

VOL +/- – Use to adjust the volume on your TV.

INPUT – Use to select the TV input signal.

CH +/- – Use to select channels.

MUTE – Use to mute the sound or cancel the mute mode.

8 Tuner/component control buttons/HOME MENU

These button controls can be accessed after you have selected the corresponding input source button (**DVD**, **DVR 1**, **TV**, etc.).

Set the operation selector switch to **RCV** to access the following controls:

AUDIO PARAMETER – Use to access the Audio options.

VIDEO PARAMETER – Use to access the Video options.

HOME MENU – Use to access the **HOME MENU**

RETURN – Press to confirm and exit the current menu screen (also use to return to the previous menu with DVDs or to select closed captioning with DTV).

9 /// (TUNE +/-/ST +/-) /ENTER

Use the arrow buttons when setting up your surround sound system and the Audio or Video options. Also used to control DVD menus/options and for deck 1 of a double cassette deck player. Use **TUNE +/-** (/) to find radio frequencies and use **ST +/-** (/) to find preset stations.

10 Component control buttons

The main buttons (, , etc.) are used to control a component after you have selected it using the input source buttons.

The controls above these buttons can be accessed after you have selected the corresponding input source button (for example **DVD**, **DVR 1** or **TV**). These buttons also function as described below.

Press **TUNER** first to access:

MPX – Switches between stereo and mono reception of FM broadcasts. If the signal is weak, then switching to mono will improve the sound quality.

NOISE CUT MODE 1 to 2 can be selected when receiving AM broadcasts.

EON – Use to search for programs that are broadcasting traffic or news information.

Set the operation selector switch to **RCV** first to access:

STATUS – Press to check selected receiver settings.

PHASE CTRL – Press to switch on/off Phase Control or Full Band Phase Control.

CH LEVEL – Press repeatedly to select a channel, then use **←/→** to adjust the level.

11 Receiver controls

AUTO/DIRECT – Press to select Auto Surround or Stream Direct listening.

STEREO/A.L.C. – Switches between the stereo playback mode and the Front Stage Surround Advance mode.

STANDARD – Press for Standard decoding and to switch between the various **■** Pro Logic IIx and Neo:6 options.

ADV SURR – Use to switch between the various surround modes.

THX – Press to select a Home THX listening mode.

12 Number buttons and other receiver/component controls

Use the number buttons to directly select a radio frequency or the tracks on a CD, DVD, etc.

ENTER can be used to enter commands for TV or DTV.

After set the remote control operation switch to **RCV**:

SIGNAL SEL – Use to select an input signal.

SLEEP – Use to put the receiver in sleep mode and select the amount of time before sleep.

DIMMER – Dims or brightens the display.

SR+ – Switches the SR+ mode on/off.

SBch – Use to select the surround/virtual surround back channel mode.

MCACC – Press to switch between MCACC presets.

A.ATT – Attenuates (lowers) the level of an analog input signal to prevent distortion.

GENRE – Automatically selects the most appropriate Advanced Surround mode for the genre of the source currently being played back (this feature is available only when a Pioneer DVD recorder supporting HDMI Control is connected to this receiver via HDMI).

SC-LX81 only: **HDMI OUT** – Switch the HDMI output terminal.

Press **TUNER** first to access:

D.ACCESS – After pressing, you can access a radio station directly using the number buttons.

CLASS – Switches between the three banks (classes) of radio station presets.

13 SOURCE

Press to turn on/off other components connected to the receiver.

14 Remote control illumination button

Press to turn on/off the illumination of some of the buttons and the LCD light.

15 Remote control operation selector switch

Set to **RCV** to operate the receiver, **TV** or **SOURCE** to operate the TV or the source device.

When this switch is set to **RCV**, the receiver can be controlled (used to select the white commands above the number buttons (**A.ATT**, etc.)). Also use this switch to set up surround sound.

16 VOL +/-

Use to set the listening volume.

17 MUTE

Mutes the sound or restores the sound if it has been muted (adjusting the volume also restores the sound).

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

A

To keep the product quality after servicing, confirm recommended check points shown below.

No.	Procedures	Item to be checked
1	Confirm whether the customer complain has been solved. If the customer complain occurs with the particular source, such as Dolby Digital, DTS, AAC, DVD-A and HDMI, input it for the operation check.	The customer complain must not be reappeared. Video, Audio and operations must be normal.
2	Check the analog audio playback. (Make the analog connections with a DVD player.)	Each channel audio and operations must be normal.
3	Check the digital audio playback. (Make the digital connections with a DVD player.)	Each channel audio and operations must be normal.
4	Check surround playback. (Select Surround mode and check the multichannel operations via the DSP circuit.)	Each channel audio and operations must be normal.
5	Check the video outputs. (Connect with a DVD player.)	Video and operations must be normal.
6	Check the sound from headphone output.	Sound must be normal, without noise.
7	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

C

See the table below for the items to be checked regarding video and audio:

Items to be checked regarding video	Item to be checked regarding audio
Block noise	Distortion
Horizontal noise	Noise
Dot noise	Volume too low
Disturbed image (video jumpiness)	Volume too high
Too dark	Volume fluctuating
Too bright	Sound interrupted
Mottled color	

D

● Cleaning the Fan



Before shipment, be sure to clean the fan, using the following cleaning materials:

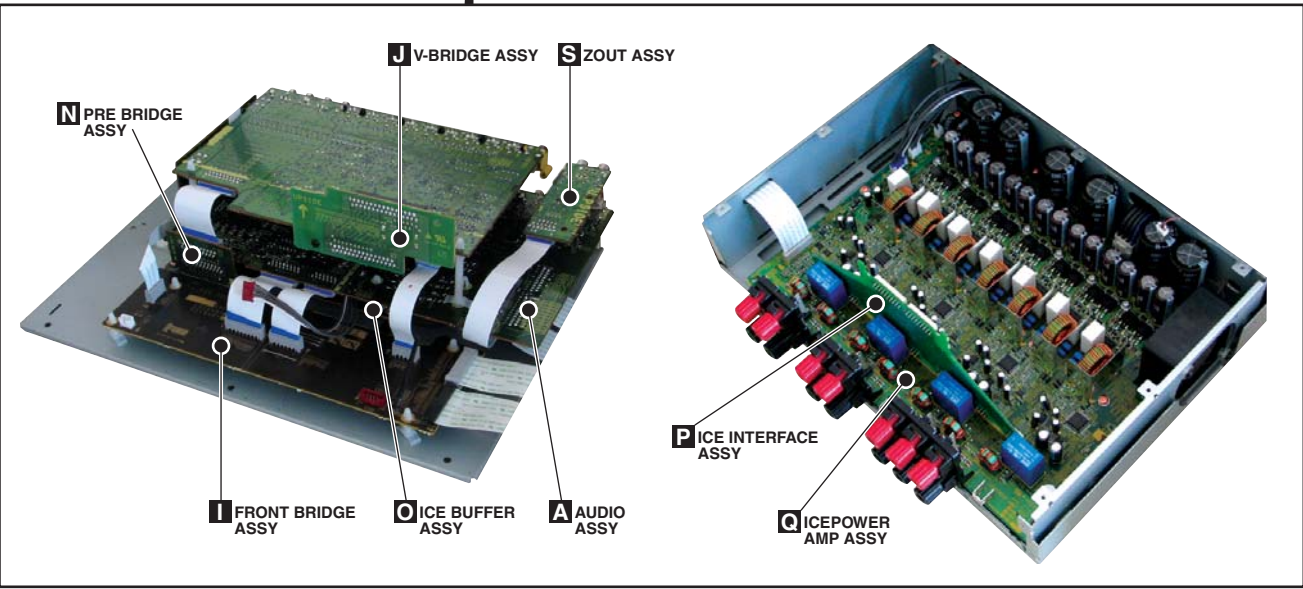
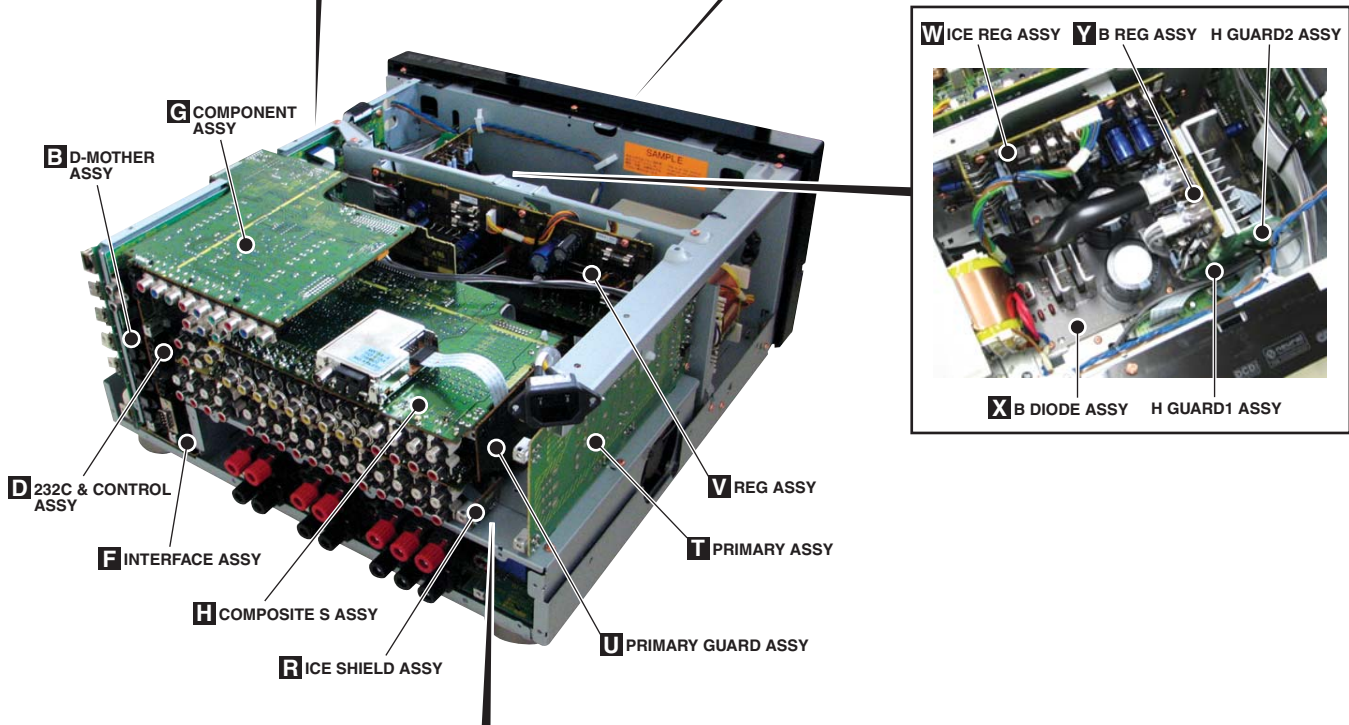
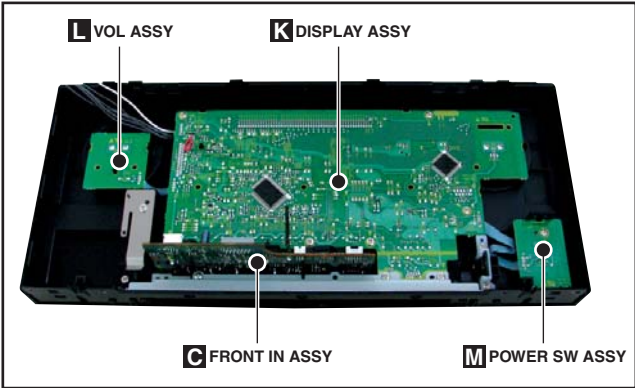
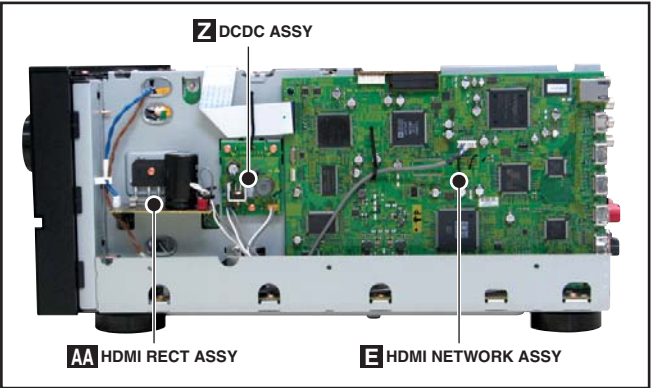
Cleaning paper : GED-008

E

F

5 6 7 8

3.2 PCB LOCATIONS



A

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 ● The Δ mark found on some component parts indicates the importance of the safety factor of the part.
 Therefore, when replacing, be sure to use parts of identical designation.

◆ LIST OF ASSEMBLIES

Mark	Symbol and Description	SC-LX81 /HYSXJ5	SC-LX71 /HYSXJ5
	1..ICEPOWER AMP ASSY	AWH7017	AWH7017
NSP	1..COMPOSITE ICE ASSY	AWM8106	AWM8106
	2..COMPOSITE S ASSY	AWX9144	AWX9144
	2..ICE BUFFER ASSY	AWX9145	AWX9145
	2..PRE BRIDGE ASSY	AWX9146	AWX9146
	2..ICE SHIELD ASSY	AWX9173	AWX9173
NSP	1..PRIM DISPLAY ASSY	AWM8120	AWM8129
	2..PRIMARY ASSY	AWX9166	AWX9166
	2..HDMI RECT ASSY	AWX9156	AWX9156
	2..DISPLAY ASSY	AWX9158	AWX9238
	2..VOL ASSY	AWX9159	AWX9159
	2..POWER SW ASSY	AWX9160	AWX9160
	2..V-BRIDGE ASSY	AWX9161	AWX9161
NSP	1..DIGITAL MOTHER ASSY	AWP7058	AWP7064
	2..D-MOTHER ASSY	AWX9196	AWX9202
	2..ICE INTERFACE ASSY	AWX9137	AWX9137
	2..DCDC ASSY	AWX9138	AWX9138
	2..H GUARD2 ASSY	AWX9147	AWX9147
	2..H GUARD1 ASSY	AWX9174	AWX9174
NSP	1..COMPONENT FIN ASSY	AWQ7058	AWQ7061
	2..COMPONENT ASSY	AWX9141	AWX9211
	2..FRONT IN ASSY	AWX9142	AWX9142
	2..ZOUT ASSY	AWX9143	AWX9143
NSP	1..INTERFACE REG ASSY	AWR7067	AWR7067
	2..INTERFACE ASSY	AWX9148	AWX9148
	2..ICE REG ASSY	AWX9149	AWX9149
	2..B REG ASSY	AWX9150	AWX9150
	2..B DIODE ASSY	AWX9171	AWX9171
NSP	1..FBRIDGE REG ASSY	AWR7068	AWR7068
	2..REG ASSY	AWX9152	AWX9152
	2..FRONT BRIDGE ASSY	AWX9155	AWX9155
NSP	1..AUDIO ASSY	AWR7071	AWR7071
	2..AUDIO ASSY	AWX9206	AWX9206
	2..232C & CONTROL ASSY	AWX9209	AWX9209
	2..PRIMARY GUARD ASSY	AWX9172	AWX9172
	1..HDMI NETWORK ASSY	AWX9234	AWX9235
	1..FM/AM TUNER UNIT	AXX7248	AXX7248

F

3.3 JIGS LIST

[1] Jigs List

Name	Jig No.	Remarks
27P FFC	GGD1588	Diagnosis
19P FFC	GGD1589	Diagnosis
21P FFC	GGD1590	Diagnosis
16P FFC	GGD1591	Diagnosis
30p+13p board to board extension cable	GGD1592	Diagnosis
17p+19p board to board extension cable	GGD1593	Diagnosis
5p extension cable	GGD1594	Diagnosis

[2] Lubricants and Glues List

Name	Lubricants and Glues No.	Remarks
Lubricating Oil	GYA1001	Refer to “9.5 FRONT PANEL SECTION”
Silicone Grease	GEM1057	Refer to “9.3 CHASSIS SECTION”

△

F



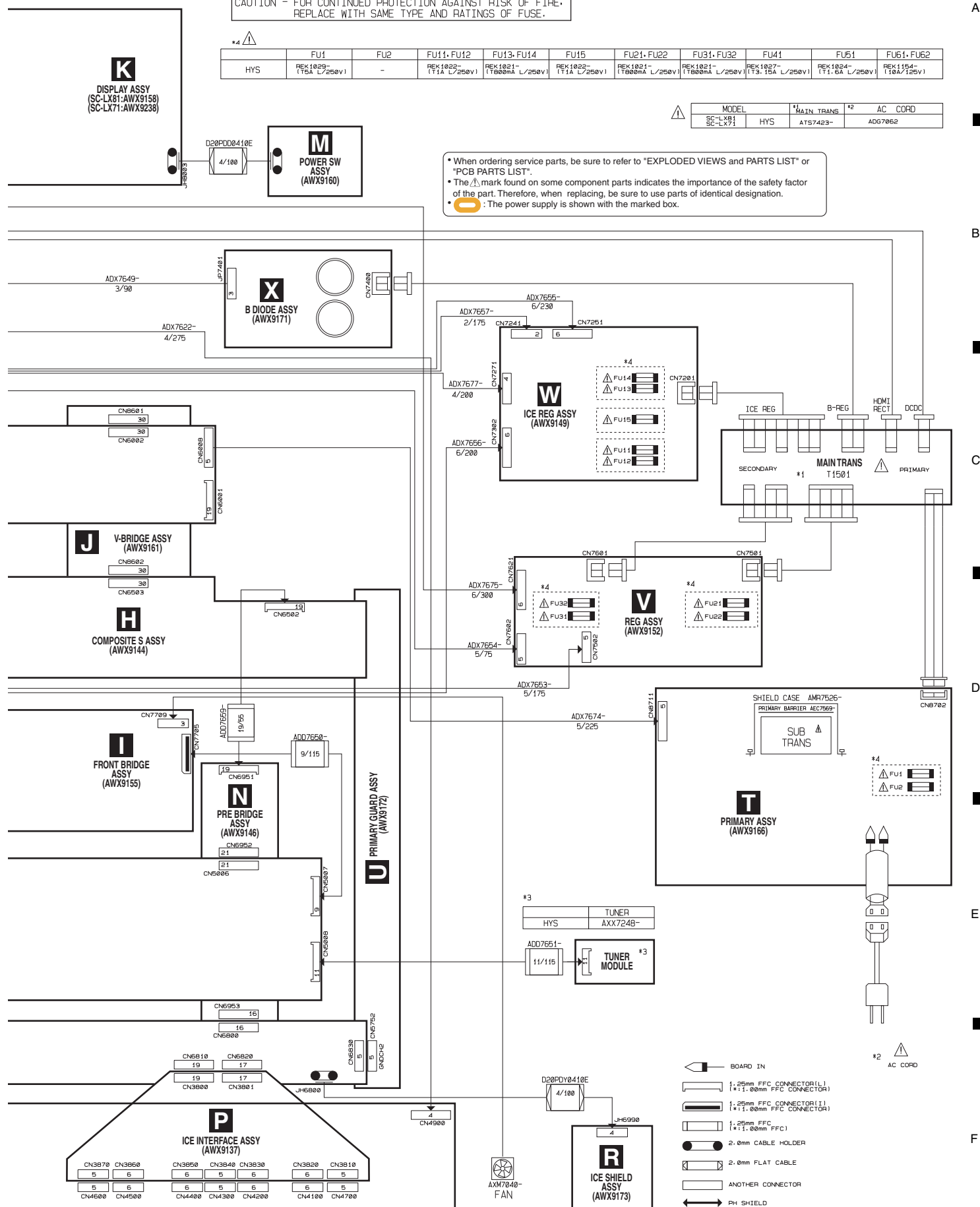
CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

*4

	FU1	FU2	FU11, FU12	FU13, FU14	FU15	FU21, FU22	FU31, FU32	FU41	FU51	FU61, FU62
HYS	REK1029- (15A L/250V)	-	REK1022- (T1A L/250V)	REK1021- (T800mA L/250V)	REK1022- (T1A L/250V)	REK1021- (T800mA L/250V)	REK1021- (T800mA L/250V)	REK1027- (T3.15A L/250V)	REK1024- (T1.6A L/250V)	REK1154- (10A/125V)

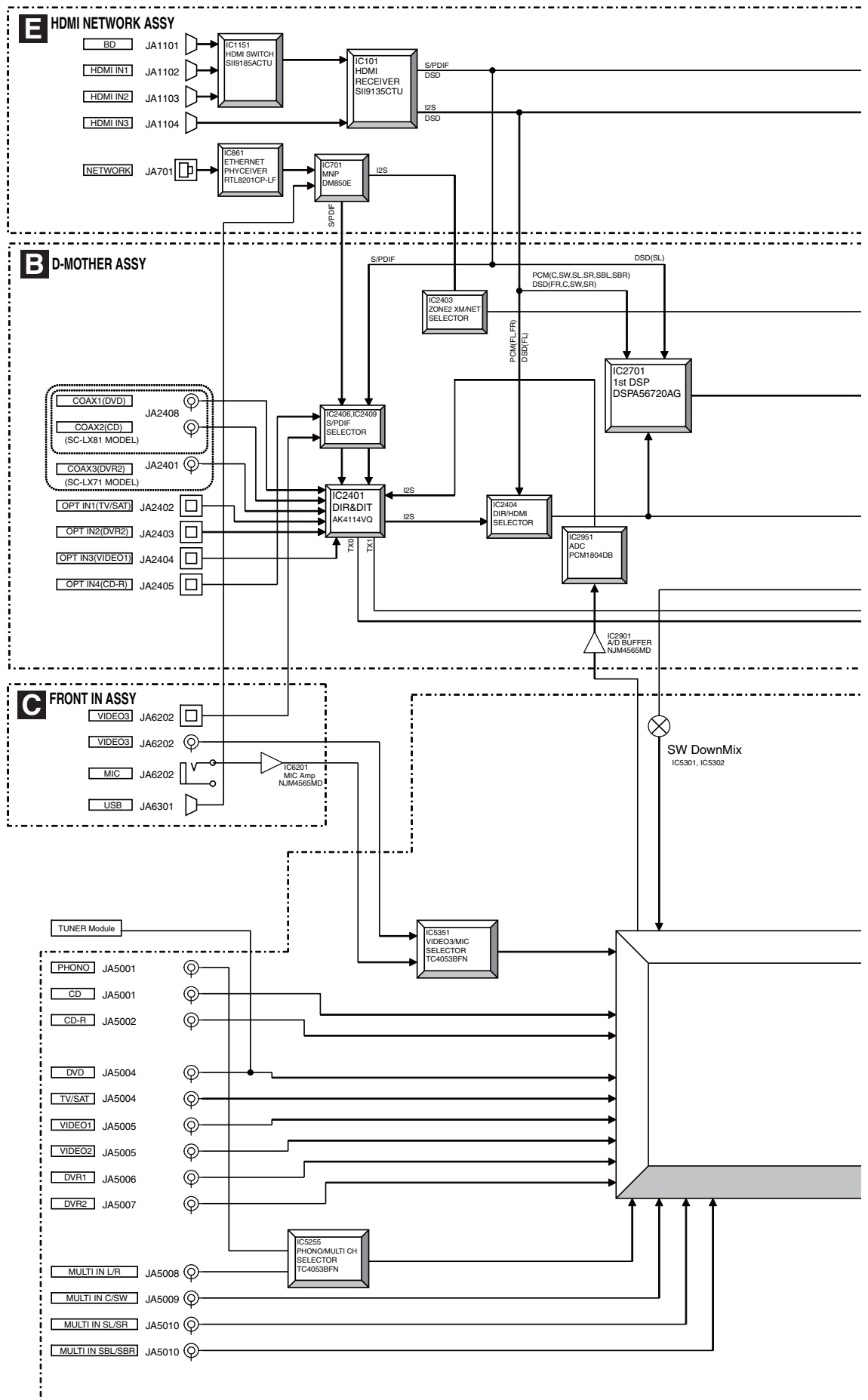
MODEL		*1 MAIN TRANS	*2 AC CORD
SC-LX81 SC-LX71	HYS	AT57423-	ADG7062

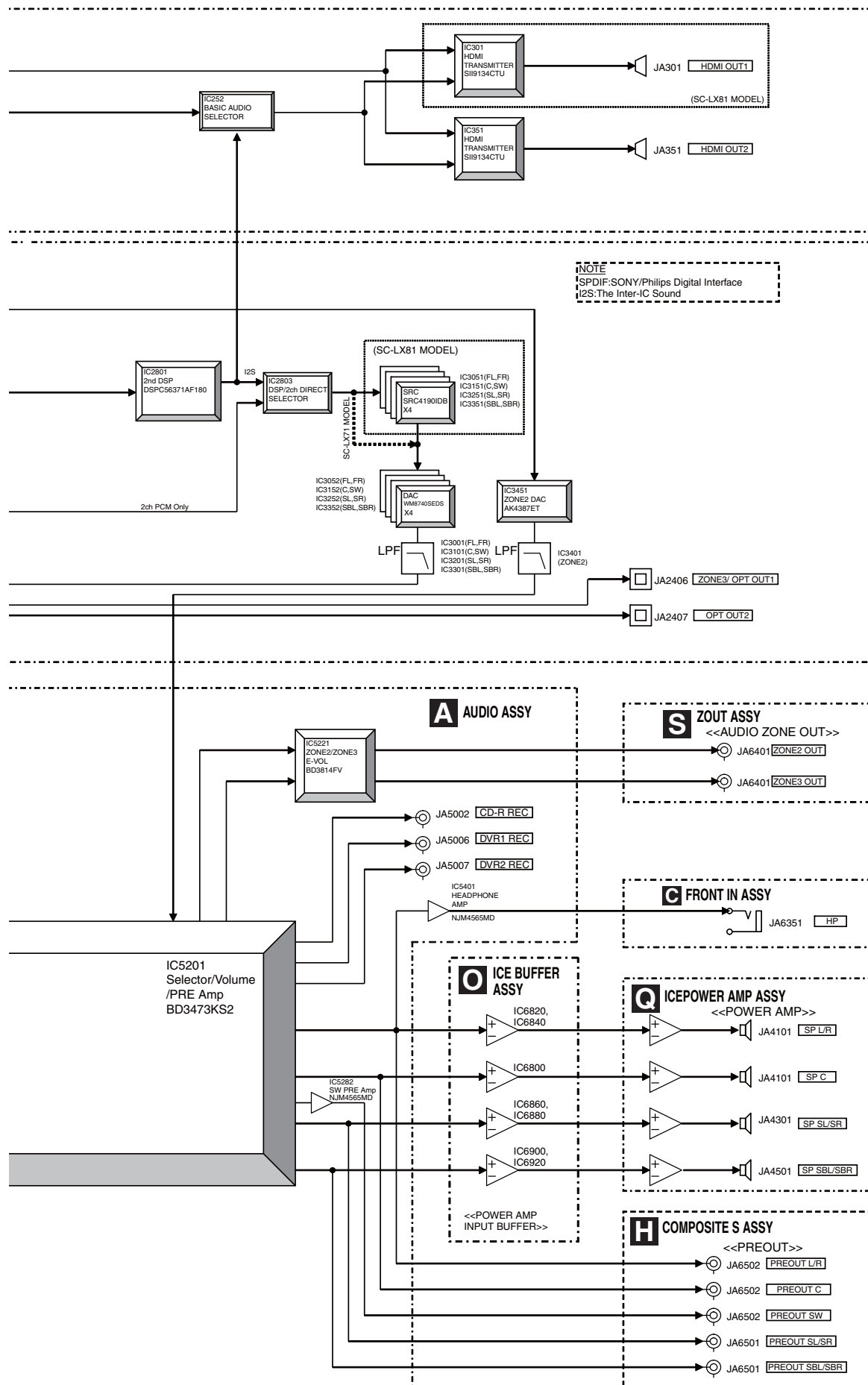
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply is shown with the marked box.



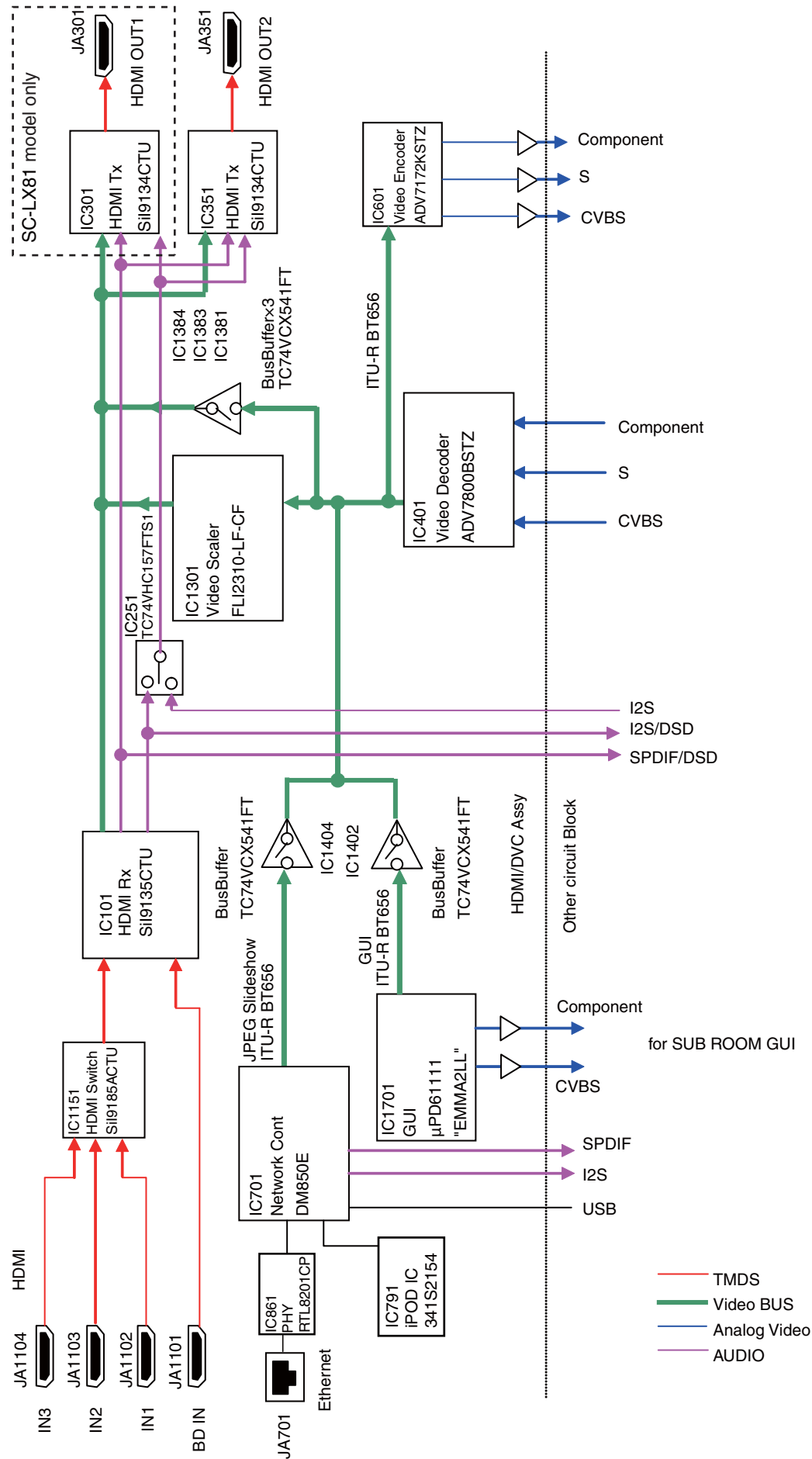
SC-LX81

4.2 AUDIO BLOCK DIAGRAM





4.4 HDMI NETWORK BLOCK DIAGRAM



■

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7

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8

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A

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B

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C

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D

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E

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F

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5

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6

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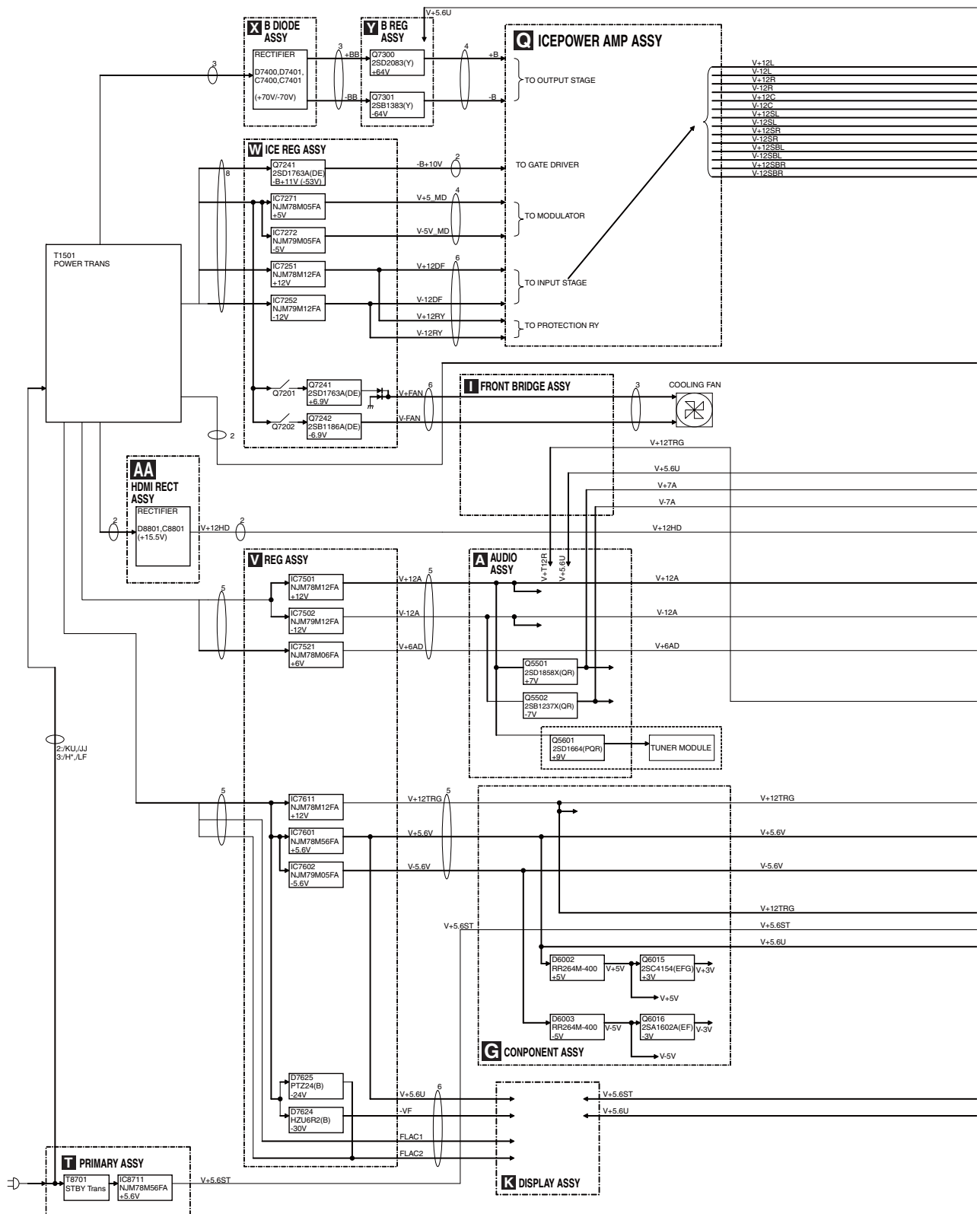
7

■

8

■

4.6 POWER BLOCK DIAGRAM

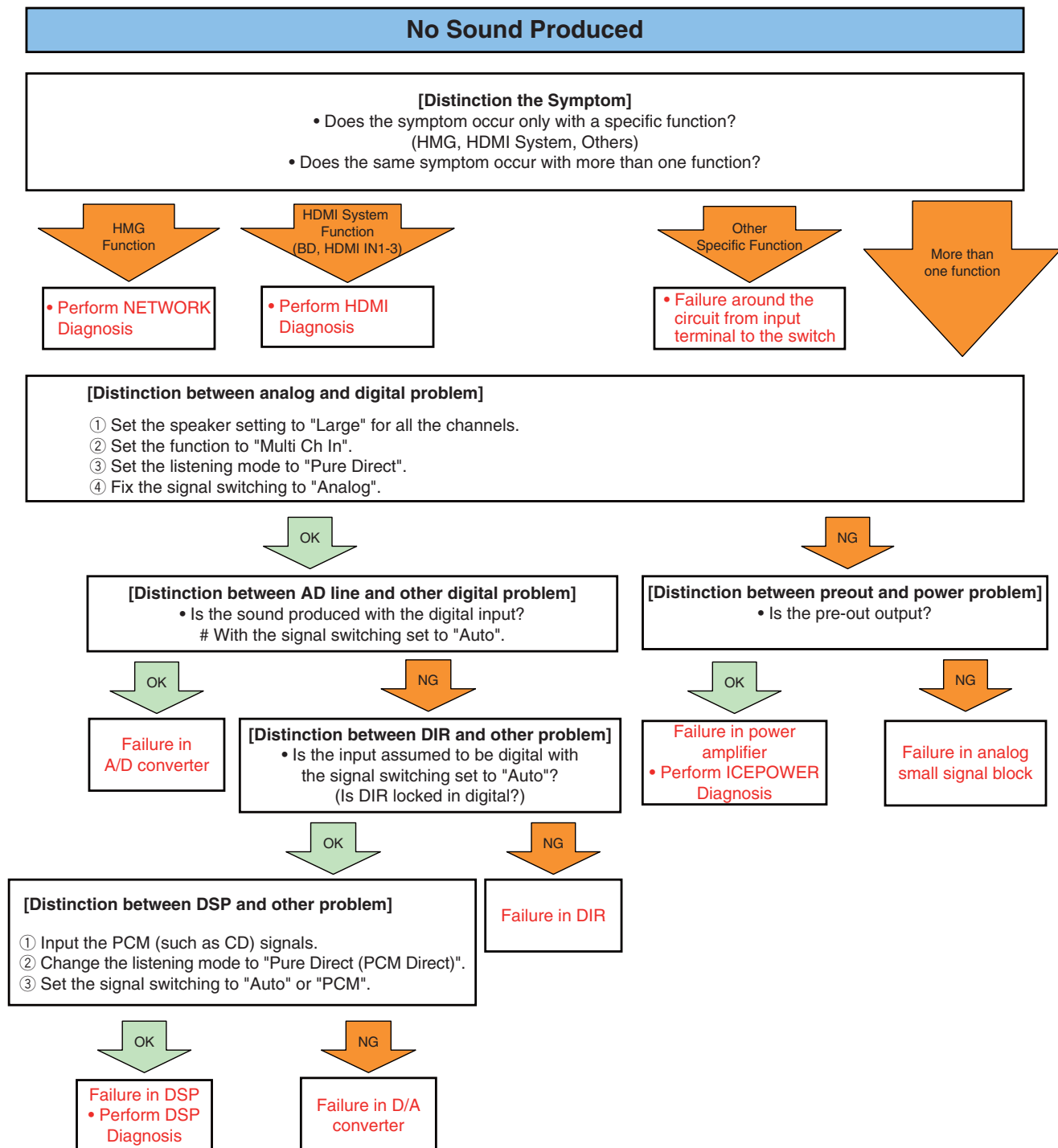




5. DIAGNOSIS

5.1 DIAGNOSIS FLOWCHART

[1] Audio Section Troubleshooting



[2] DSP Troubleshooting

1) Simplified diagnosis

DSP block malfunction is detected.

(The part can be roughly expected just by operation of the main unit.)

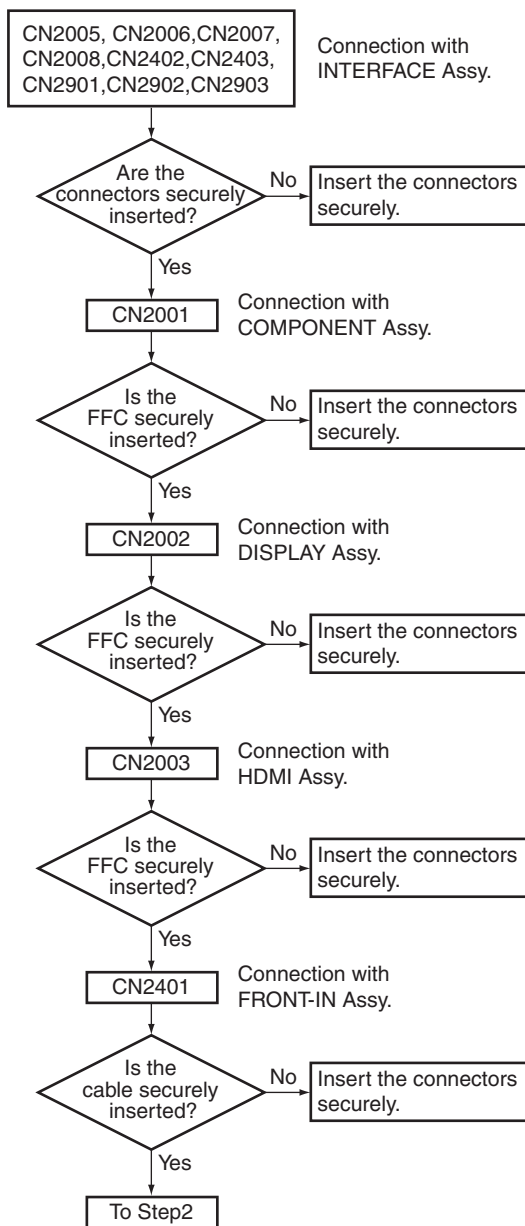
• Has DSP block caused the malfunction?

Inputting a 2ch PCM (such as CD) digital signal, check if the sound plays by switching AUTO SURR / STREAM DIRECT. When the sound doesn't play in AUTO SURROUND or DIRECT MODE though it does in PURE DIRECT (PCM DIRECT) MODE, DSP block might be defective.

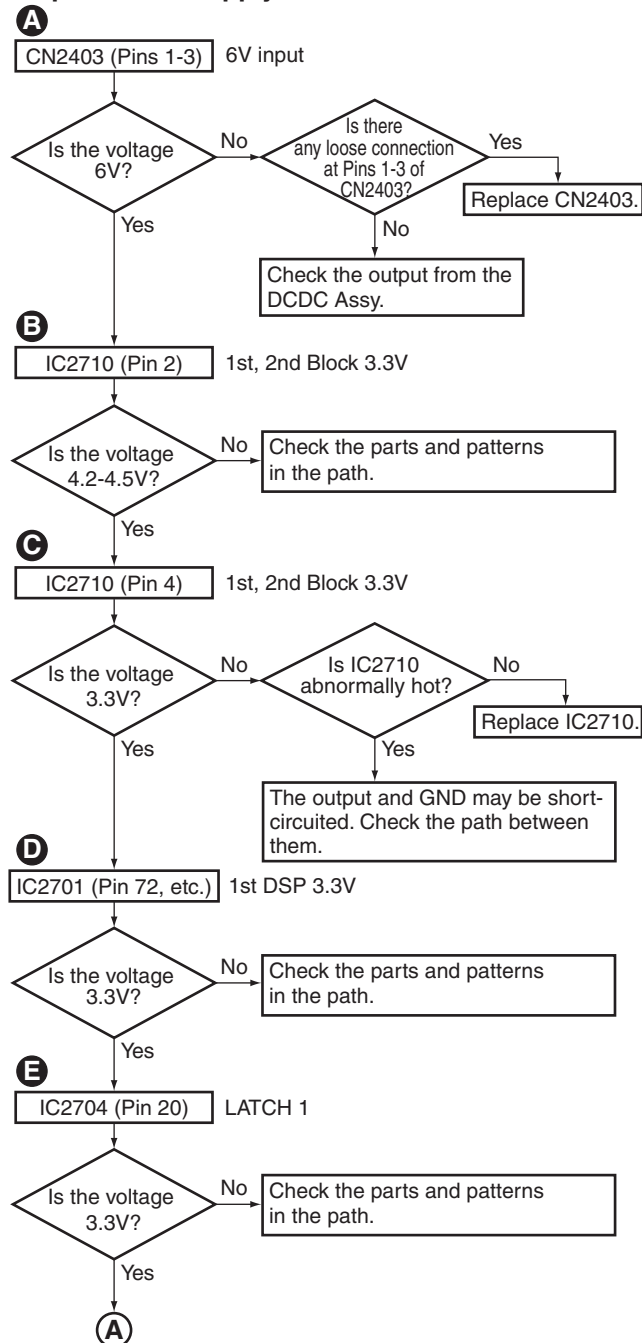
2) Troubleshooting

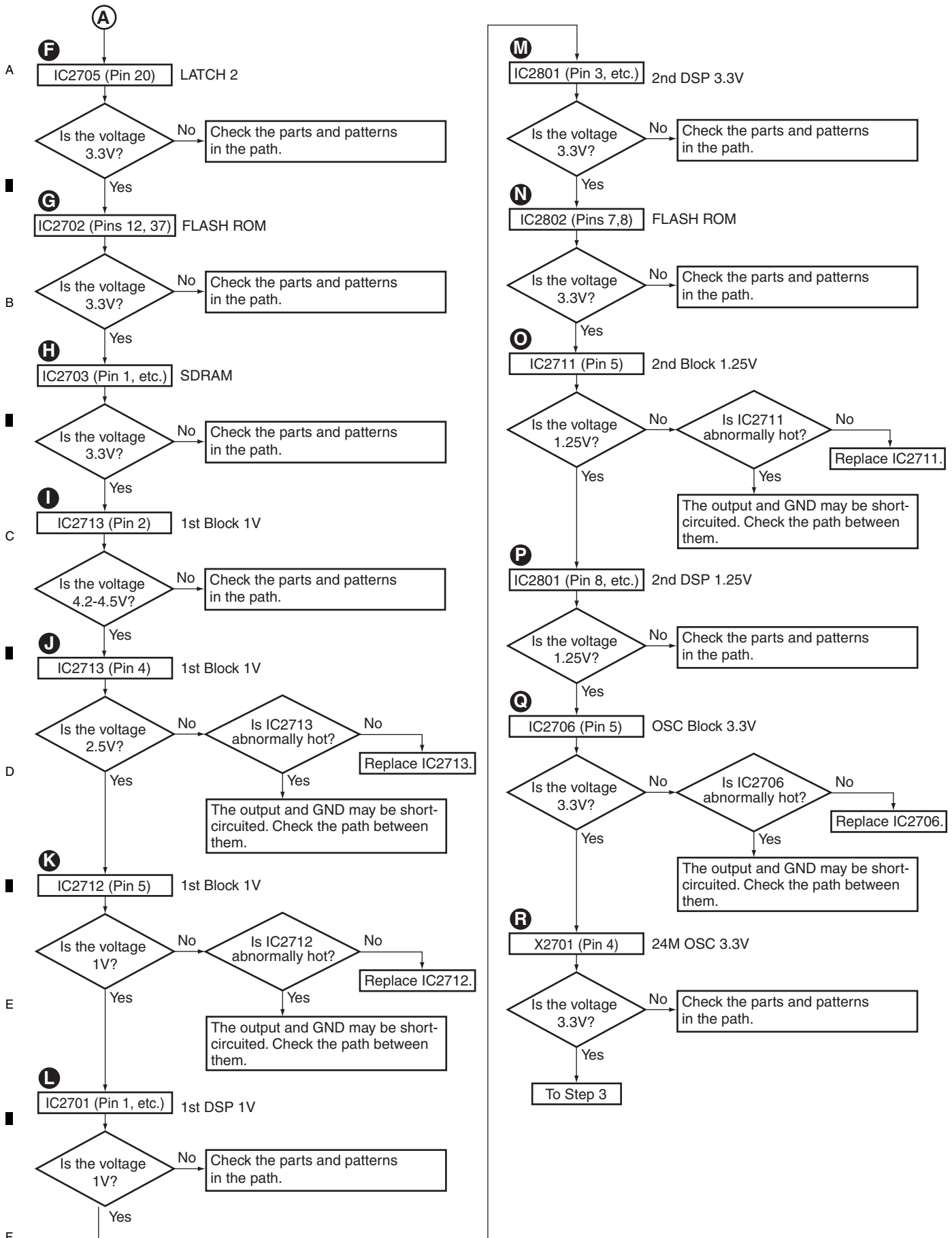
- It is assumed that there is no loose connection or damage in the LCRs.
- Refer to "DIGITAL MOTHER Assy Check Points (DSP Section)" as the parts marked **A** to **AV** in the troubleshooting are located.

Step 1: Connections

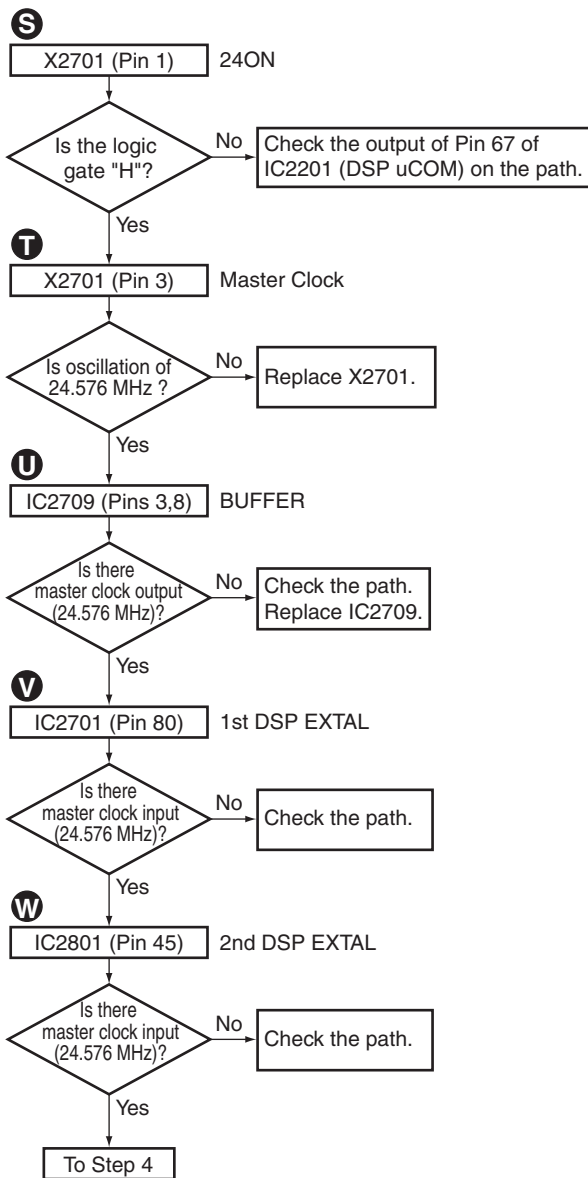


Step 2: Power supply

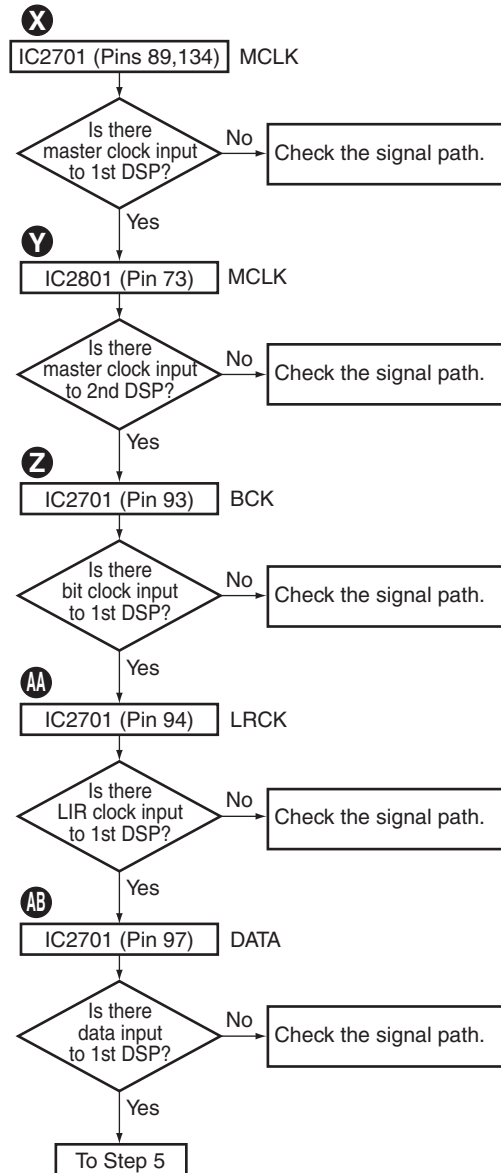




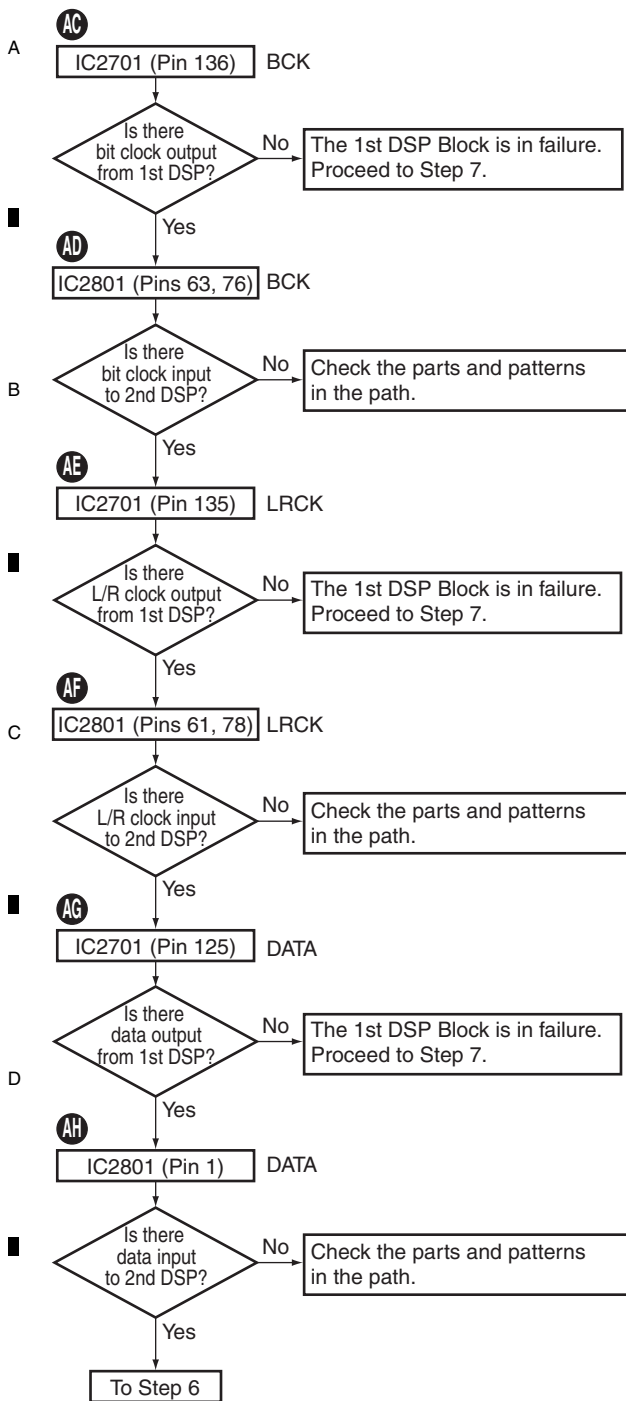
Step 3: Master Clock



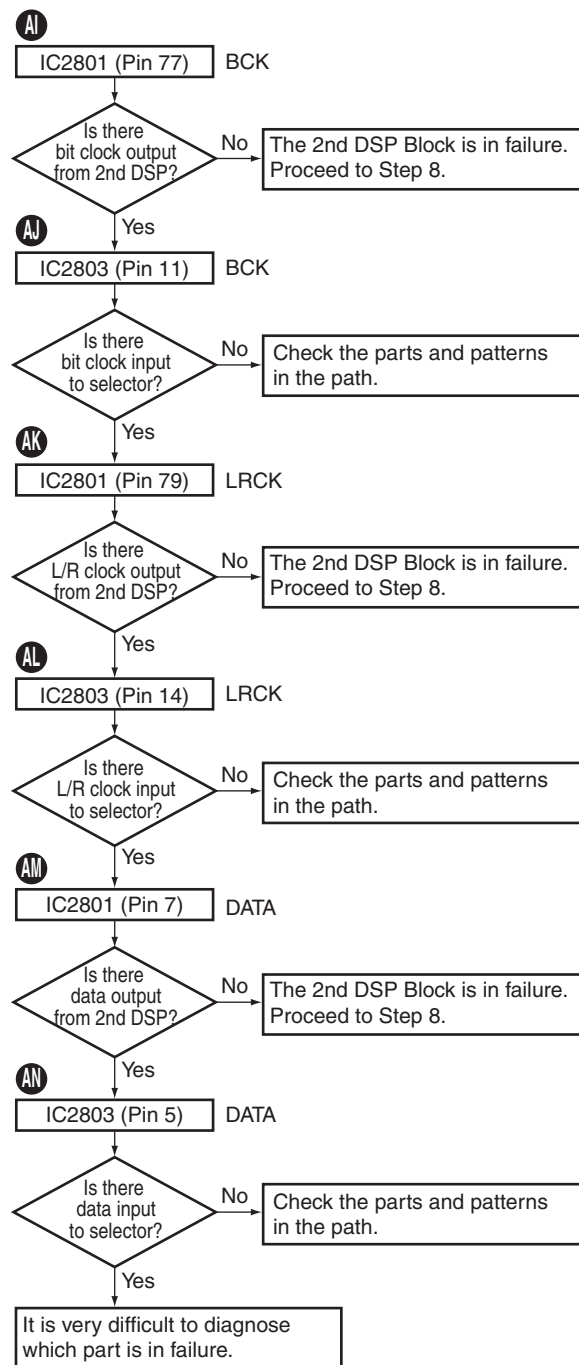
Step 4: Audio Signal



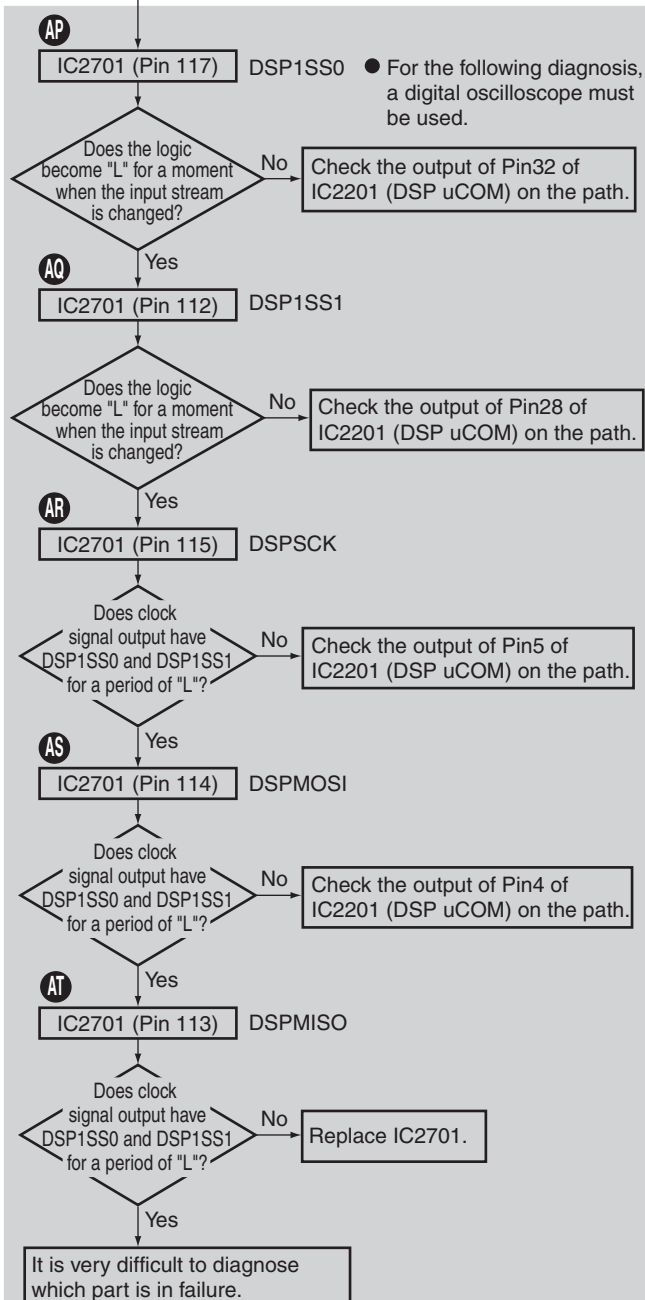
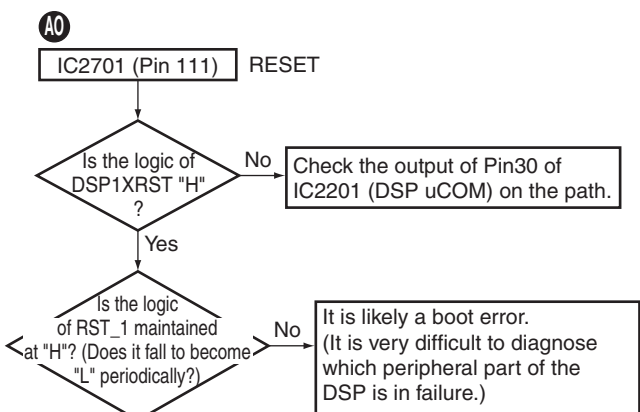
Step 5: Audio Signal



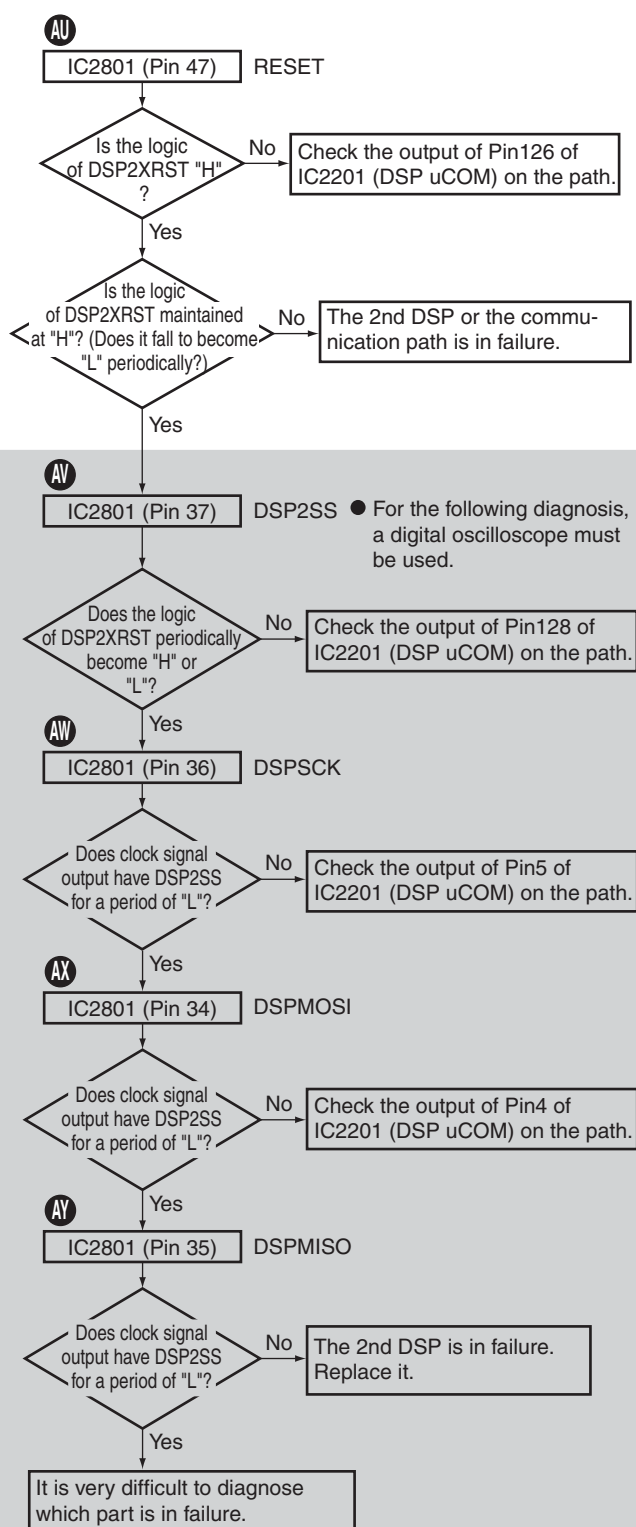
Step 6: Audio Signal



Step 7: 1st DSP



Step 8: 2nd DSP



3) D-MOTHER Assy check points (DSP section)

A

B D-MOTHER ASSY SIDE A

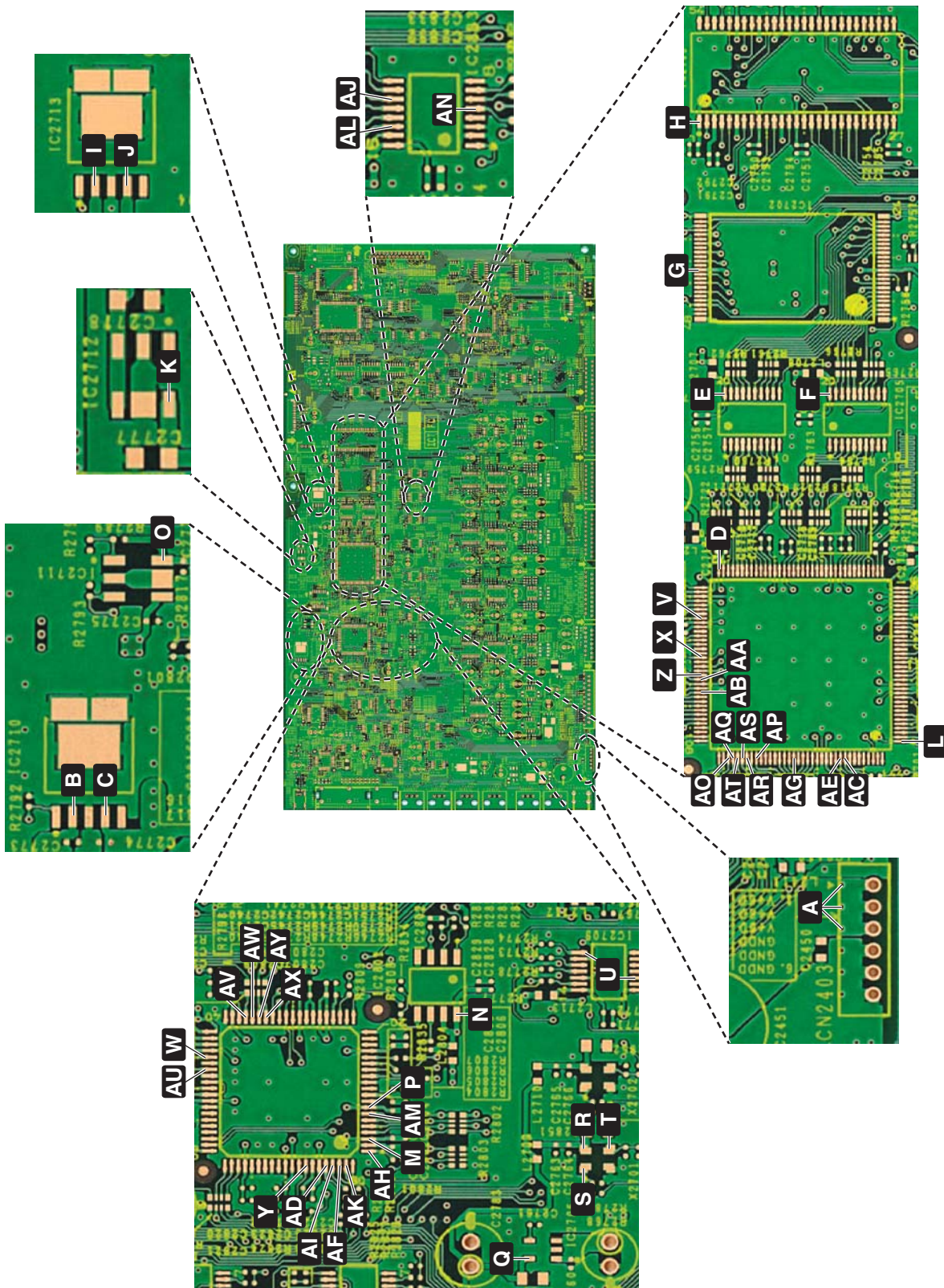
B

C

D

E

F

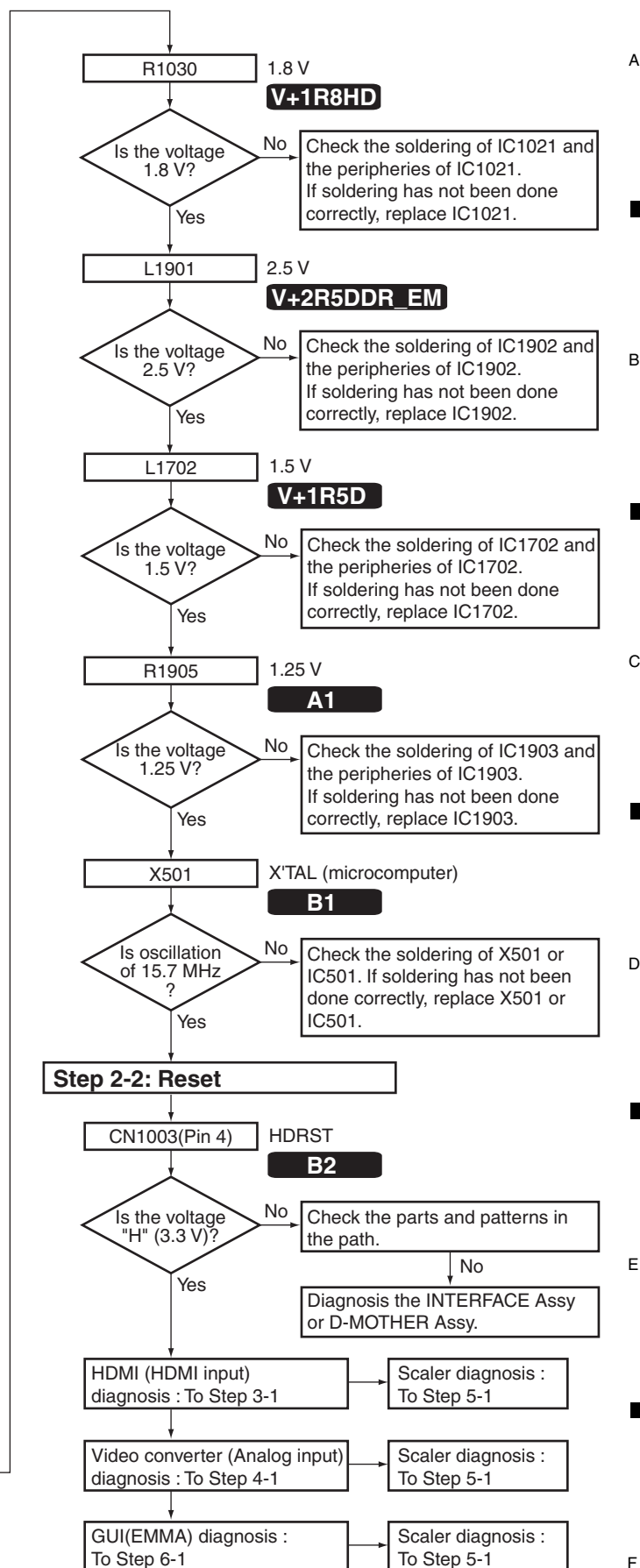
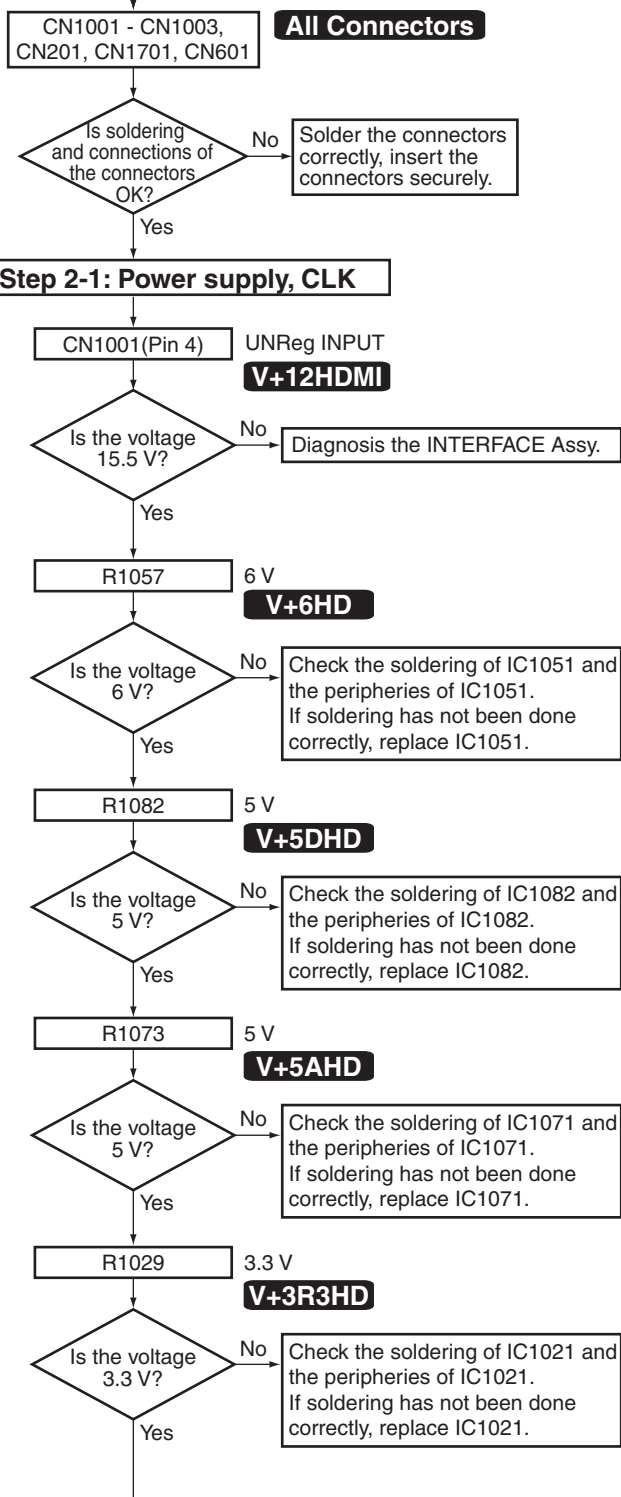


[3] HDMI Troubleshooting

- The parts marked like **A2** in the following chart are located in "HDMI/NETWORK Assy Check Points".

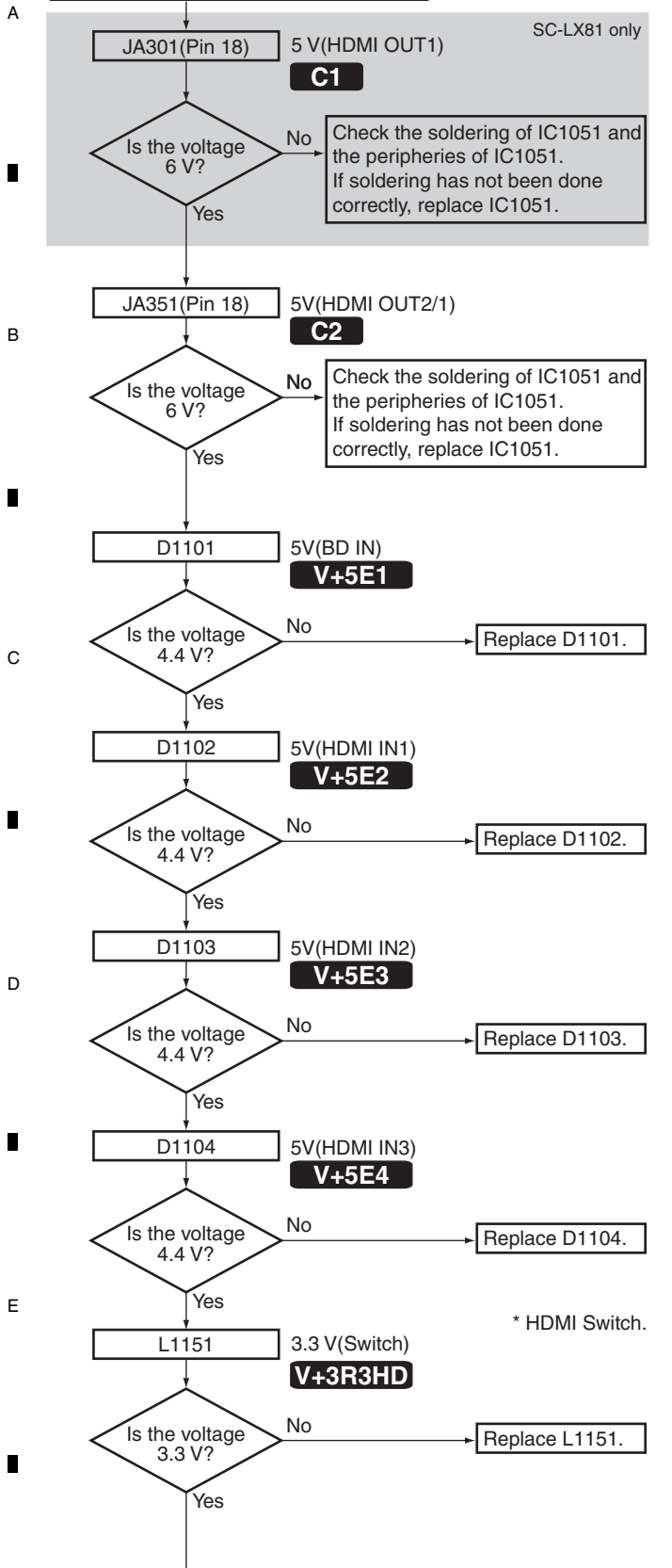
Common section

Step 1: Connections

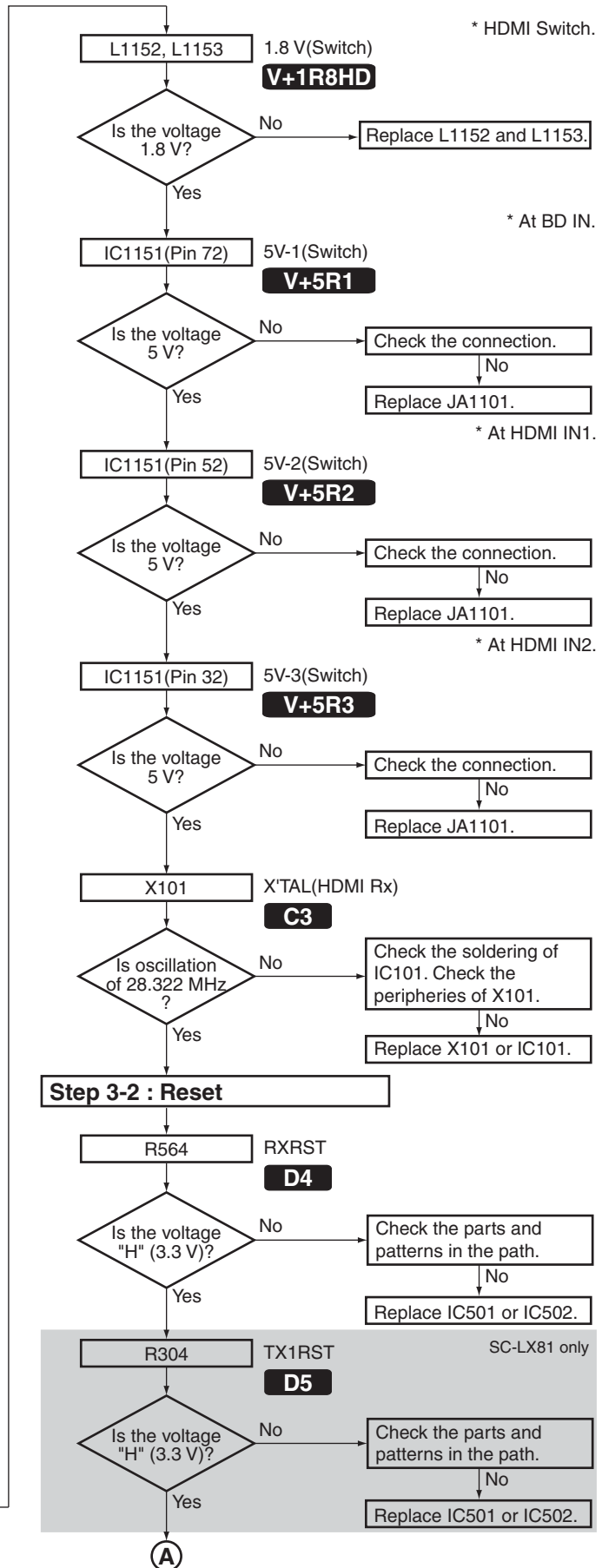


HDMI section

Step 3-1: Power supply, CLK



* HDMI Switch.

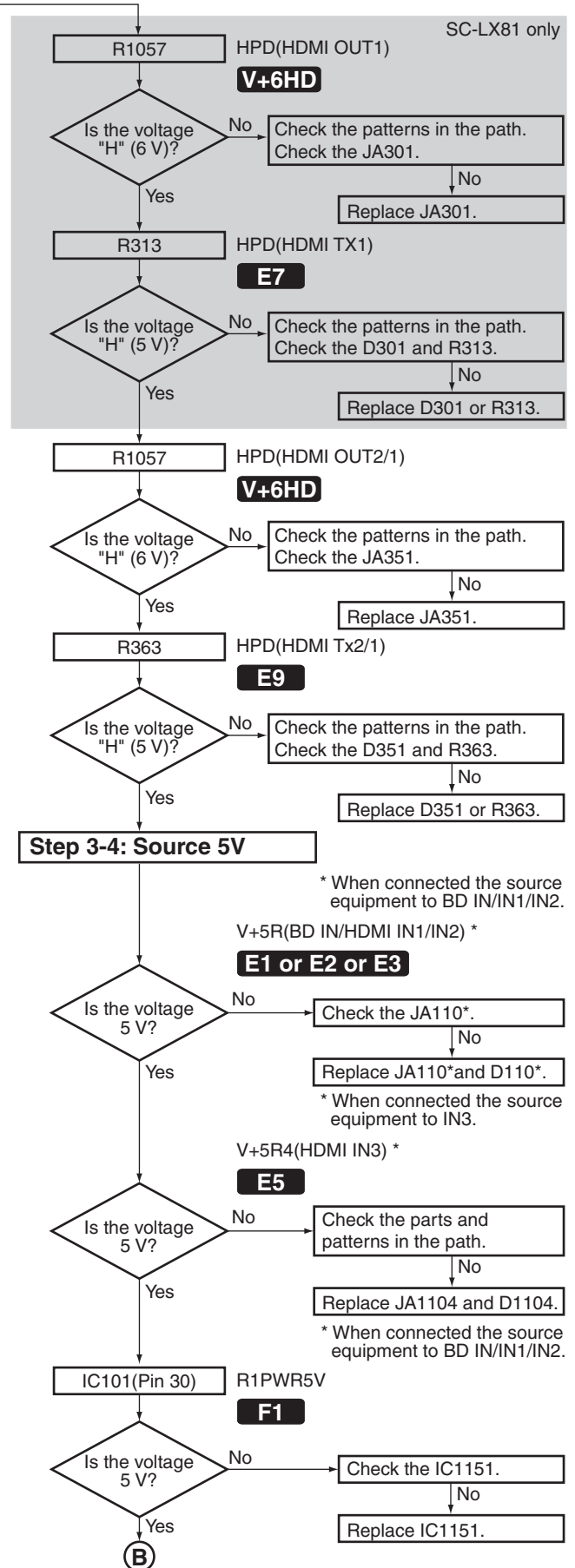
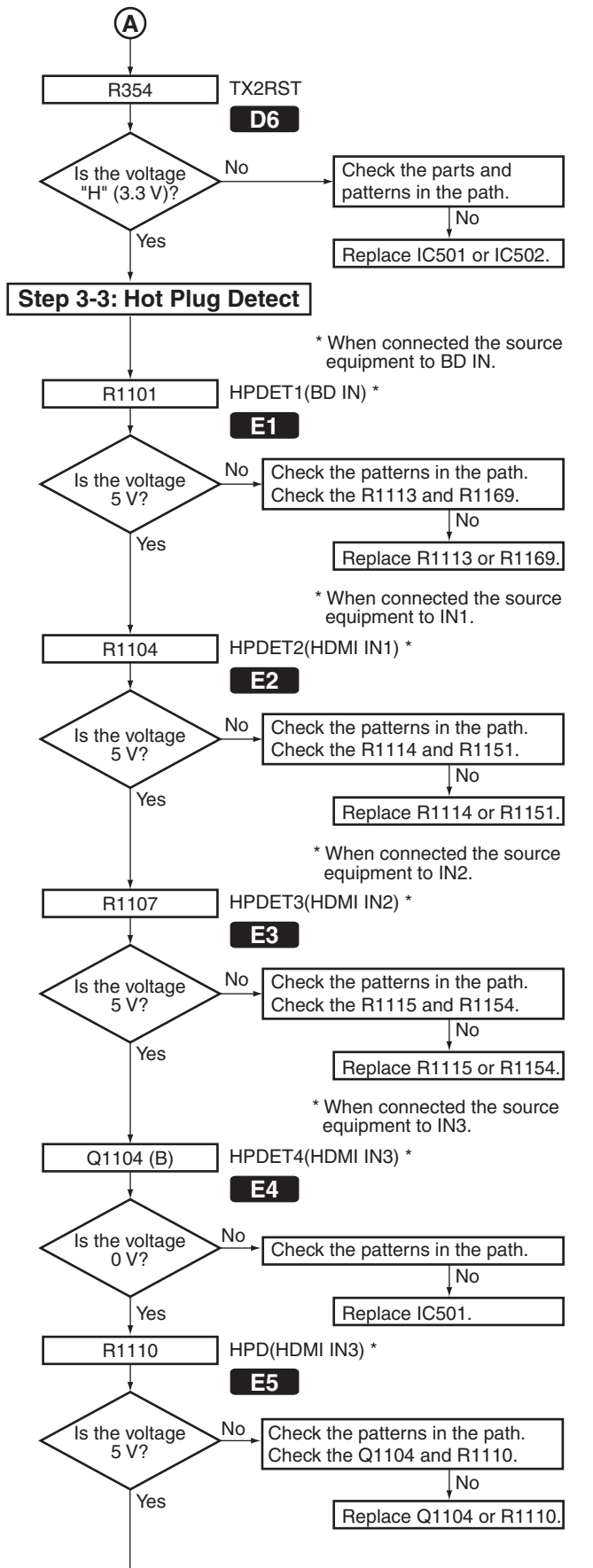


* HDMI Switch.

* At BD IN.

* At HDMI IN1.

* At HDMI IN2.



A

B

B

C

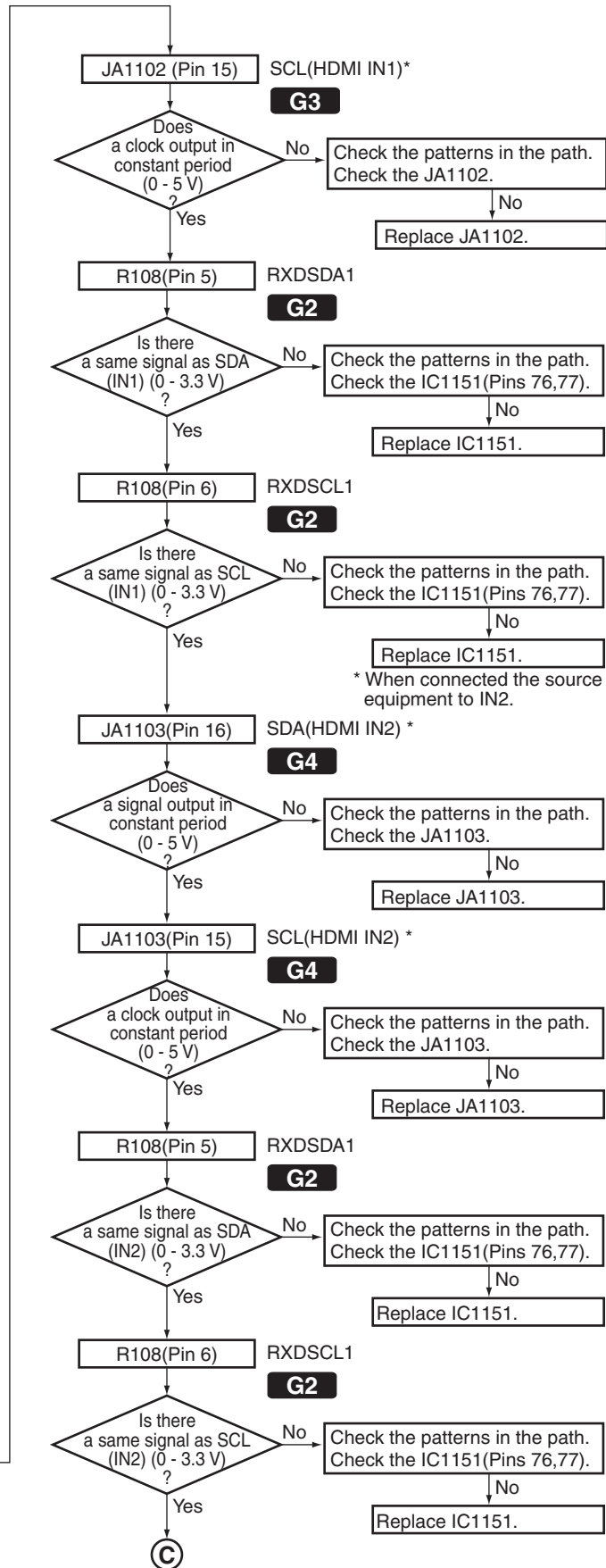
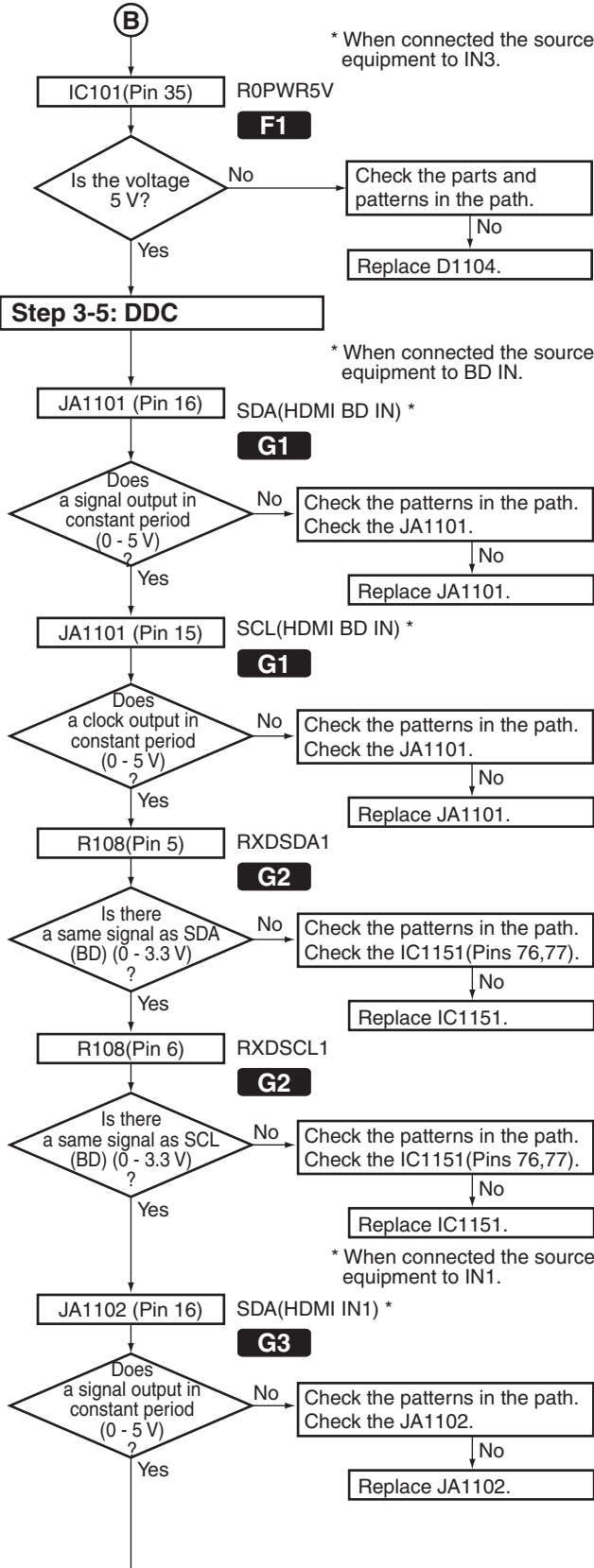
D

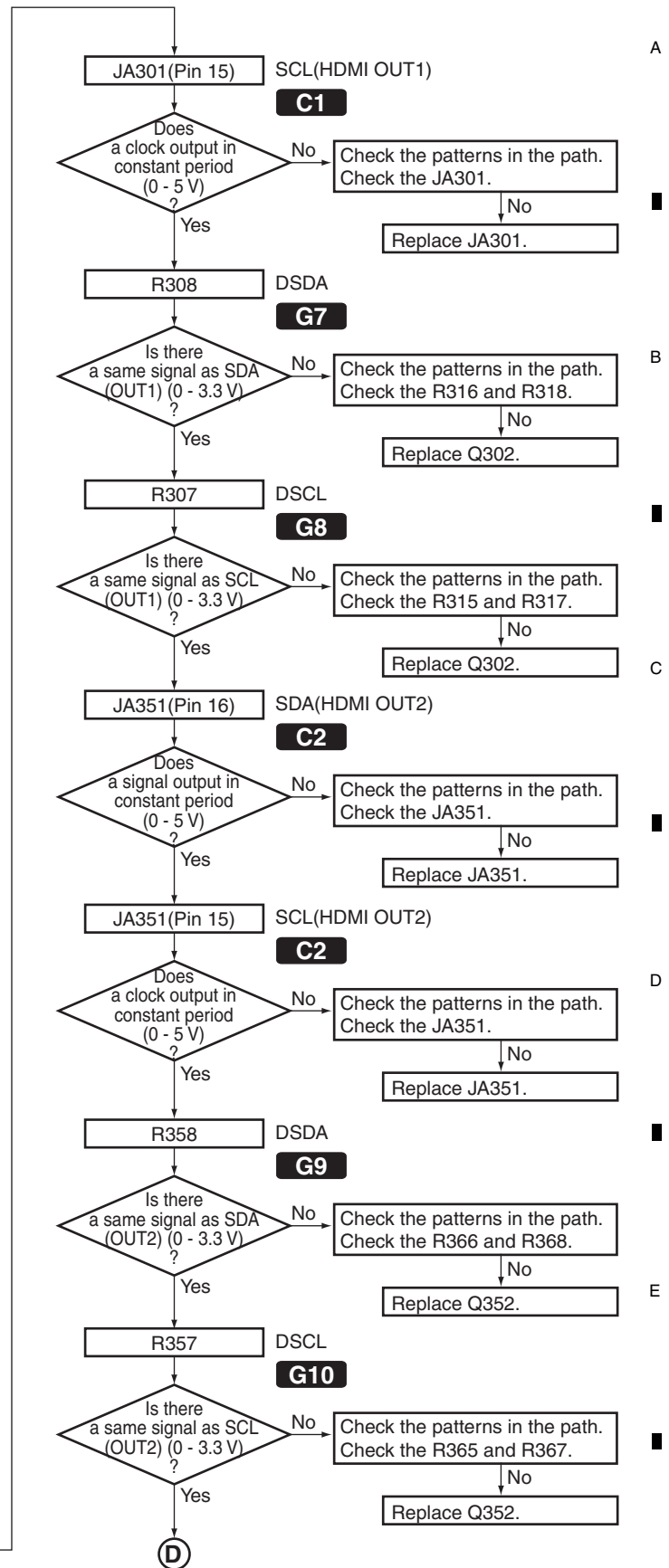
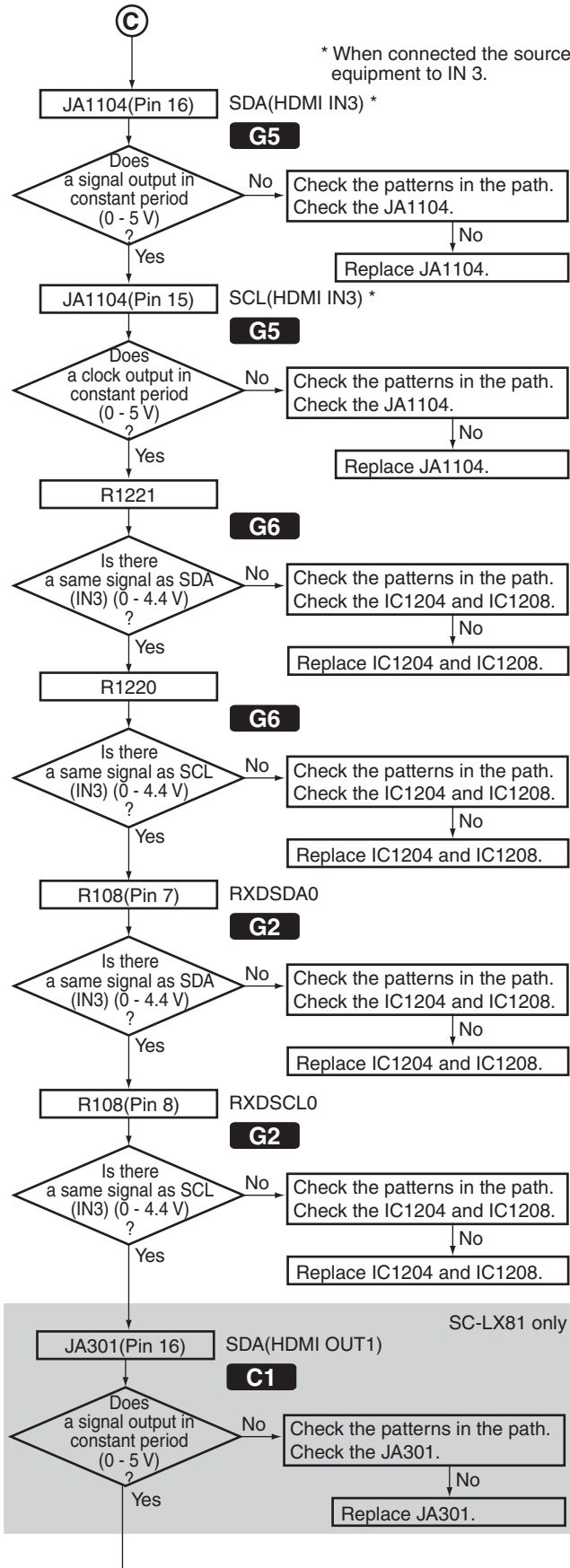
E

F

* When connected the source equipment to IN3.

* When connected the source equipment to BD IN.





D

Step 3-6: TMD5(INPUT)

* When connected the source equipment to BD IN.

IC1151(Pins 58,59,
61,62,64,65,67,68)

TMD5(BD IN) *

H1Are there signals
(approx. 0.5 Vp-p) in all
the lines?

No

Check the soldering of JA1101.

No

Replace JA1101.

Yes

IC1151(Pins 38,39,
41,42,44,45,47,48)

TMD5(HDMI IN1/IN1) *

H1Are there signals
(approx. 0.5 Vp-p) in all
the lines?

No

Check the soldering of JA1102.

No

Replace JA1102.

Yes

IC1151(Pins 18,19,
21,22,24,25,27,28)

TMD5(HDMI IN2/IN2) *

H1Are there signals
(approx. 0.5 Vp-p) in all
the lines?

No

Check the soldering of JA1103.

No

Replace JA1103.

Yes

IC101(Pins 39,40,
43,44,47,48,51,52)

TMD5(HDMI IN3/IN3) *

F1Are there signals
(approx. 0.5 Vp-p) in all
the lines?

No

Check the soldering of JA1104.

No

Replace JA1104.

Yes

IC101 (Pins 57,58,
61,62,65,66,69,70)

TMD5(Rx1)

F1Are there signals
(approx. 0.5 Vp-p) in all
the lines?

No

Check the soldering of IC110*
and JA110*.

No

Replace IC110*and JA110*.

Yes

Step 3-7: TMD5(OUTPUT)

SC-LX81 only

JA301(Pins 1,3,4,6,
7,9,10,12)

TMD5(HDMI OUT1)

G10Are there signals
(approx. 0.5 Vp-p) in all
the lines?

No

Check the parts and patterns in
the path (IC301 - JA301).

No

Replace IC301.

Yes

JA351(Pins 1,3,4,6,
7,9,10,12)

TMD5(HDMI OUT2)

G13Are there signals
(approx. 0.5 Vp-p) in all
the lines?

No

Check the parts and patterns in
the path (IC351 - JA351).

No

Replace IC351.

Yes

**Step 3-8: AUDIO CLK,DATA
(HDMI: AMP MODE)**

IC203(Pin 2) RXSPDIF

(DVD Dolby Digital)

I1Is there a
DATA?

No

Check the parts and patterns in
the path (IC101 - IC203).

No

Replace IC101.

Yes

R209(Right Side) SPDIF

I2Is there a
DATA?

No

Check the parts and patterns in
the path (IC203 - IC205).
Check the soldering of IC203,
L204 and R209.

No

Replace IC203.

Yes

CN201(Pin 2) HSPDIF

I3Is there a
DATA?

No

Check the parts (B side) and
patterns in the path (IC205 -
IC201). Check the soldering of
IC205,L204 and R213.

No

Replace IC205.

Yes

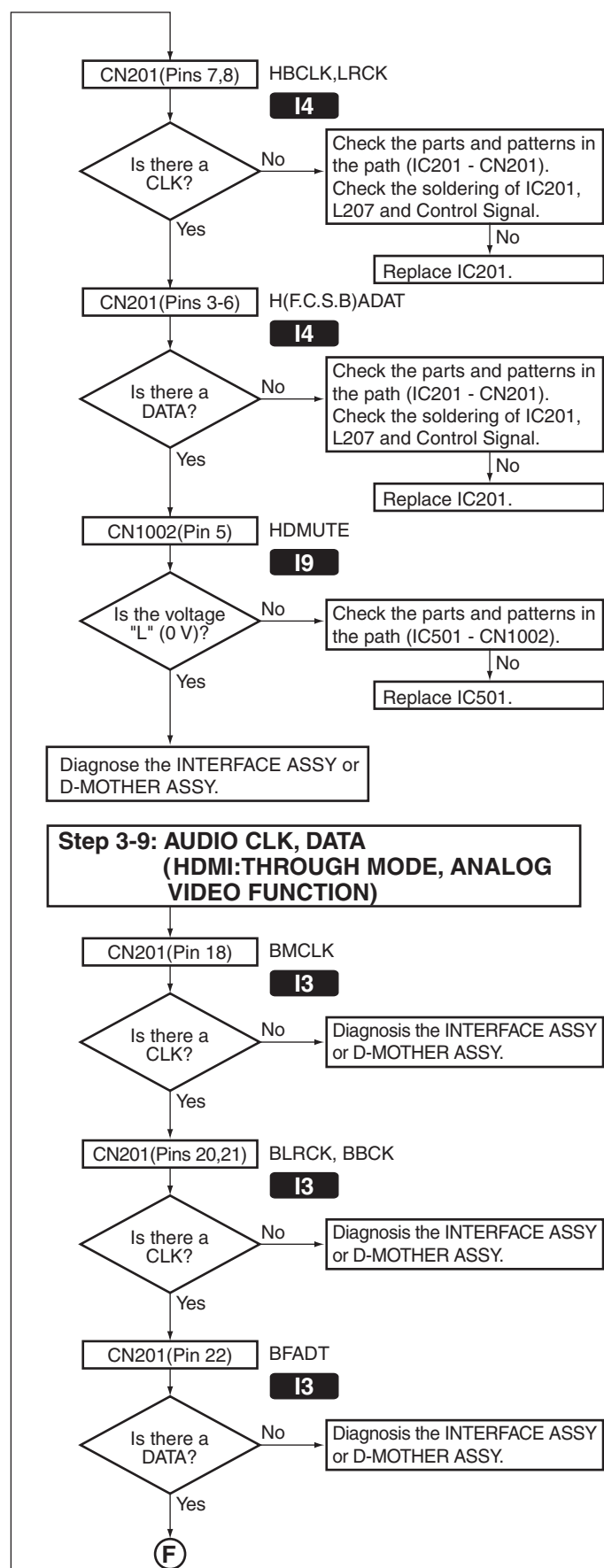
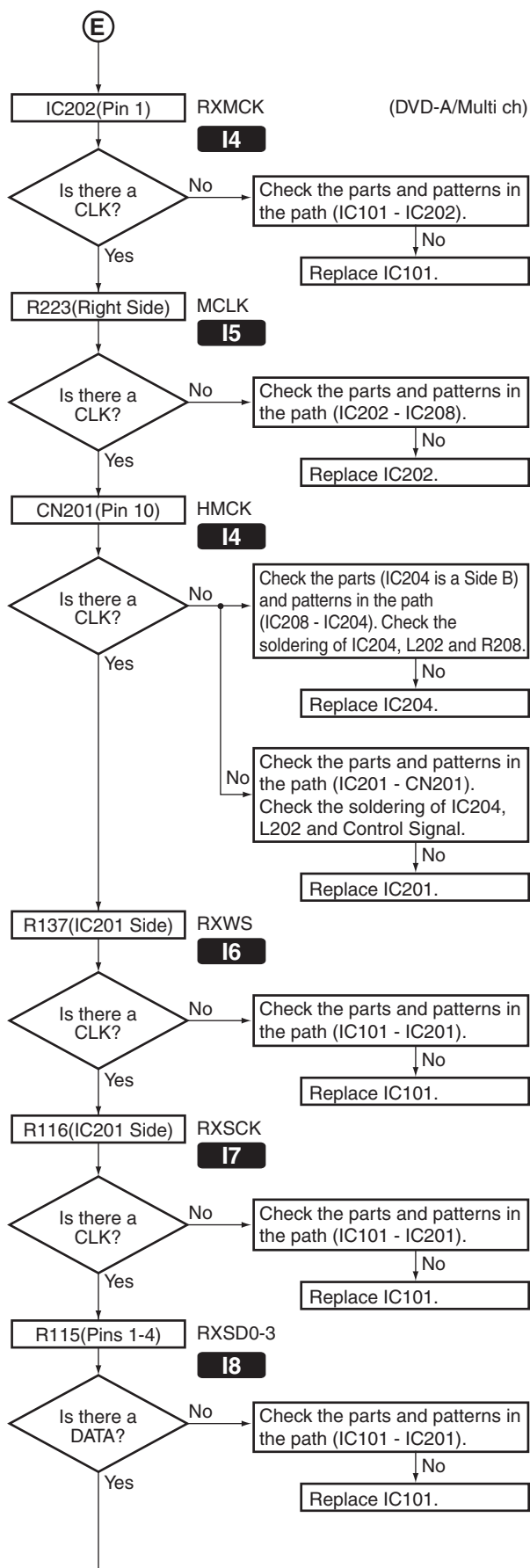
No

Check the parts and patterns in
the path (IC201 - CN201).
Check the soldering of IC201,
L207 and R206.

No

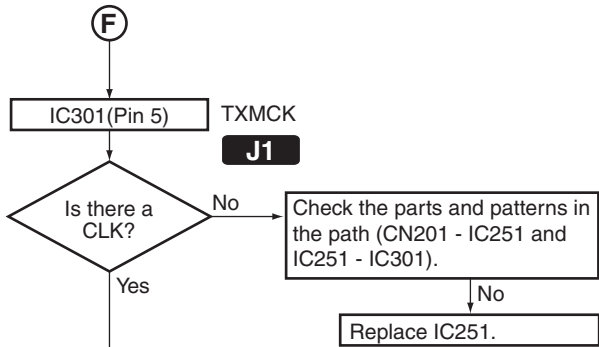
Replace IC201.

E

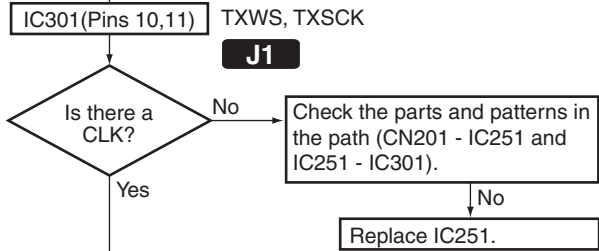


F

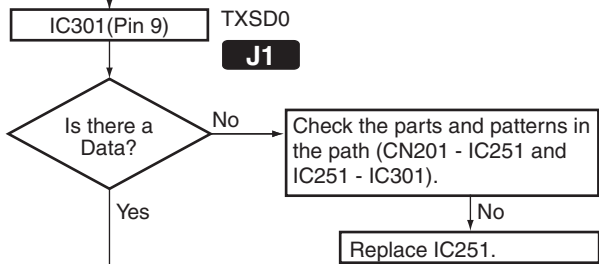
A



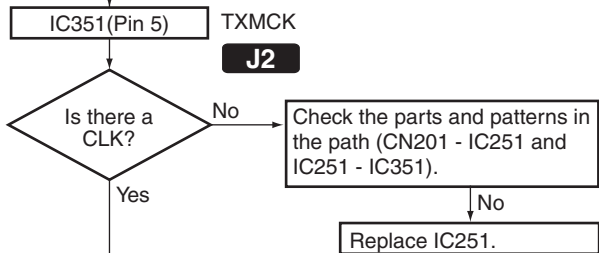
B



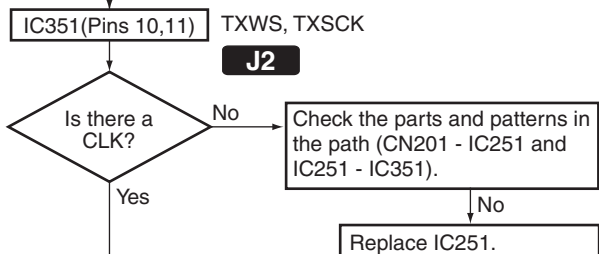
C



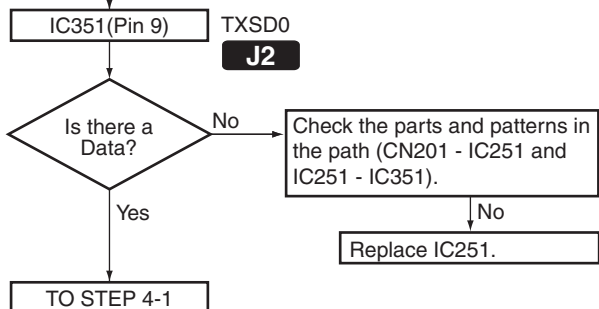
D



E

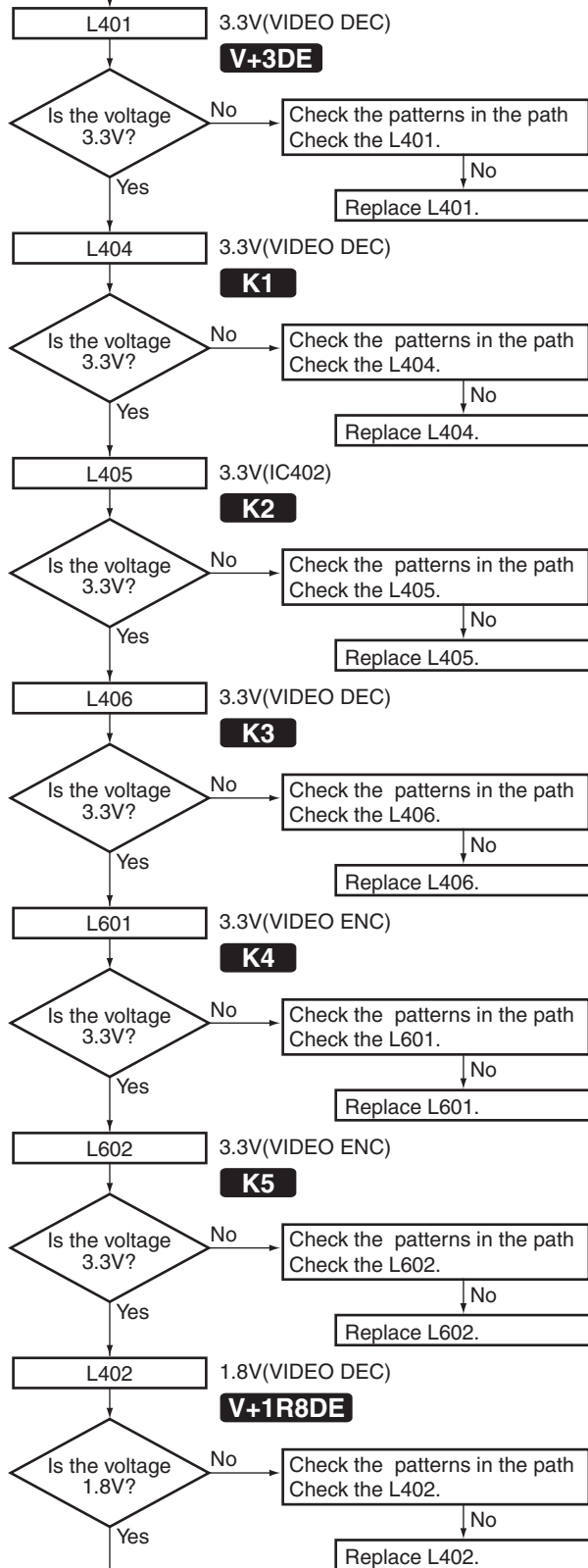


F

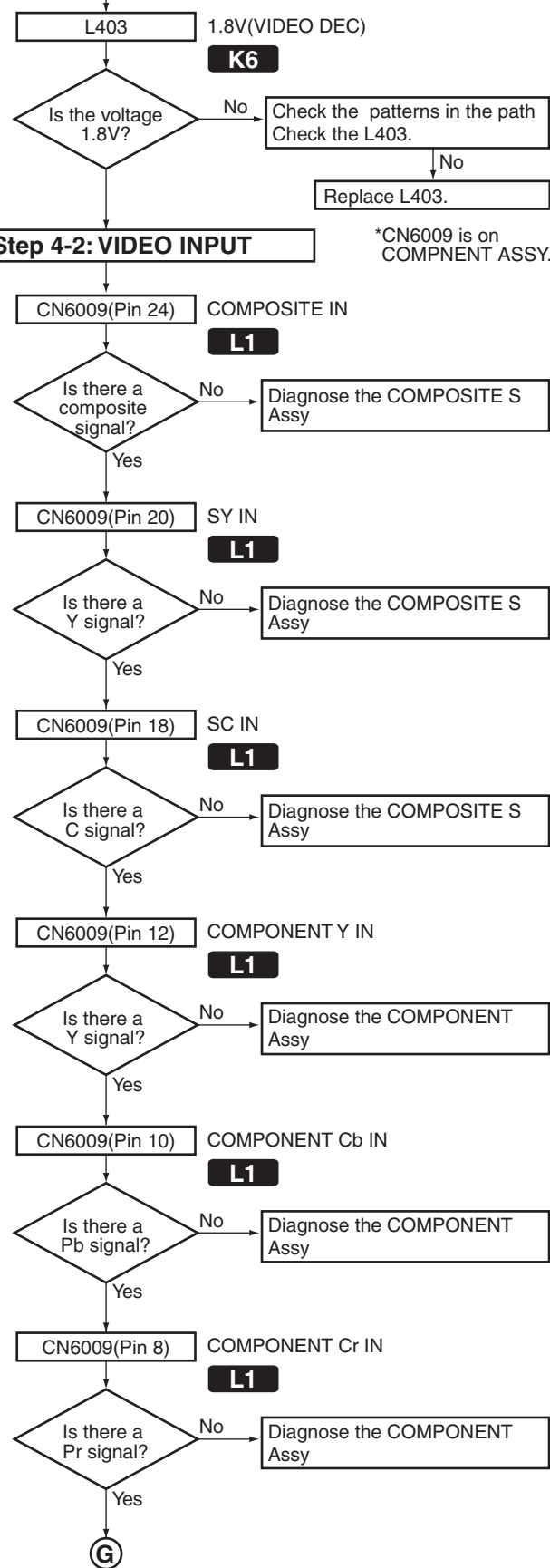


Video converter section

Step 4-1: Power supply



Step 4-2: VIDEO INPUT



G

Step 4-3: Reset

IC401(Pin 83) XVCRST(DEC)

M1

Is the voltage "H" (3.3V)?

No

Check the parts and patterns in the path(IC501 - IC401).

No

Replace IC501.

Yes

IC501(Pin 3) XVCRST(ENC)

M2

Is the voltage "H" (3.3V)?

No

Check the parts and patterns in the path(IC501 - IC601).

No

Replace IC501.

Yes

IC401(Pin 80) XTAL

M1

Is there a CLK (28.63636 MHz)?

No

Check the X401 or IC402.

No

Replace X401 or IC402.

Yes

Step 4-4: I2C

IC401(Pin 121) VCSDA

M1

Does a signal output in constant period (0 - 3.3 V)?

No

Check the parts and patterns in the path(IC501 - IC401 and IC501-IC601).

No

Replace IC501 or IC401 or IC601.

Yes

IC401(Pin 122) VCSCL

M1

Does a clock output in constant period (0 - 3.3 V)?

No

Check the parts and patterns in the path(IC501 - IC401 and IC501-IC601).

No

Replace IC501 or IC401 or IC601.

Yes

Step 4-5: VIDEO CLK, DATA

IC401(Pin 17) LLC

M1

Is there a CLK?

No

Check the parts and patterns in the path(IC401 - IC1301 and IC401-IC1381).

No

Replace IC401.

Yes

IC401(Pins 161-164, 155-158) P22-P29

N1

Is there a DATA?

No

Check the parts and patterns in the path(IC401 - IC1301 and IC401-IC1384).

No

Replace IC401.

Yes

IC401(Pins 21-28) P12-19

N1

*Only 480p/576p/720p/1080i input

Is there a DATA?

No

Check the parts and patterns in the path(IC401 - IC1301 and IC401 and IC1383).

No

Replace IC401.

Yes

R436,R435 P10, P11

N2

Is there a DATA?

No

Check the parts and patterns in the path(IC601 - IC401).

No

Replace IC401.

Yes

R431,R430 P20, P21

N3

Is there a DATA?

No

Check the parts and patterns in the path(IC601 - IC401).

No

Replace IC401.

Yes

R401(IC601 Side) LLC

N4

*Only 480i/576i input

Is there a CLK?

No

Check the parts and patterns in the path(IC401 - IC601).

No

Replace IC401.

Yes

R429,R428(IC601 Side) P22-29

N5

*Only 480i/576i input

Is there a DATA?

No

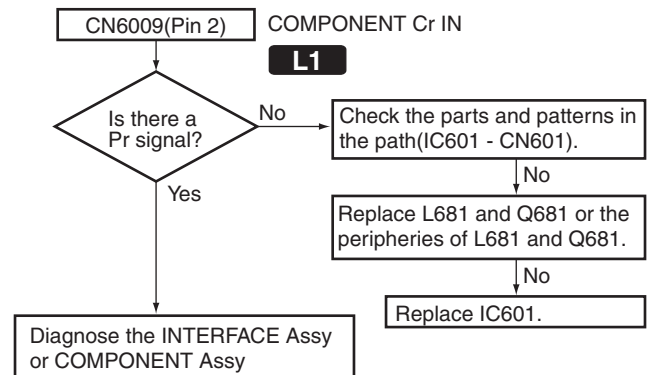
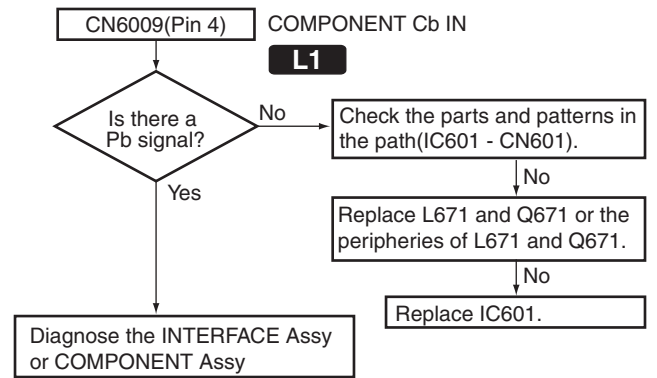
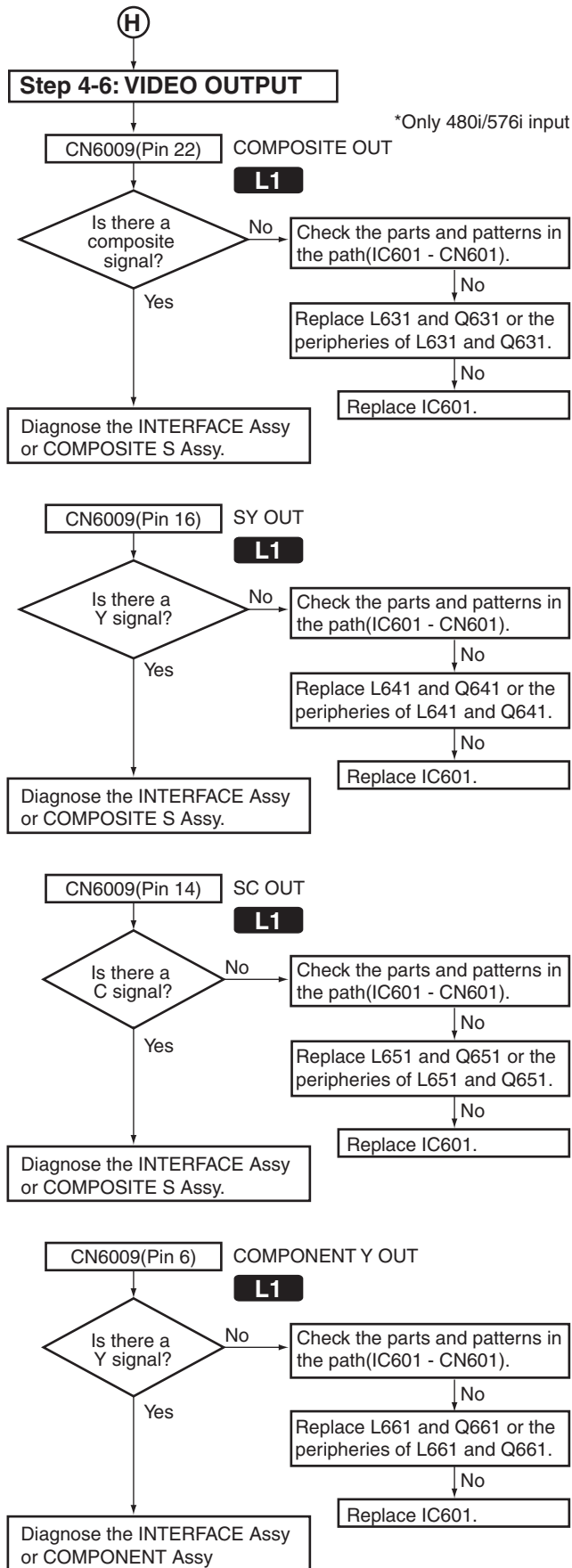
Check the parts and patterns in the path(IC401 - IC601).

No

Replace IC401.

Yes

H



Scaler section

A

Step 5-1: Power supply

L1302 3.3 V (Scaler)

O1Is the voltage
3.3 V?

No

Check the L1302.

No

Replace L1302.

Yes

L1303 3.3 V (Scaler)

O2Is the voltage
3.3 V?

No

Check the L1303.

No

Replace L1303.

Yes

L1301 1.8 V (Scaler)

O3Is the voltage
1.8 V?

No

Check the L1301.

No

Replace L1301.

Yes

L1304 1.8 V (Scaler)

O4Is the voltage
1.8 V?

No

Check the L1304.

No

Replace L1304.

Yes

L1305 1.8 V (Scaler)

O5Is the voltage
1.8 V?

No

Check the L1305.

No

Replace L1305.

Yes

L1351 3.3 V (SDRAM)

O6Is the voltage
3.3 V?

No

Check the L1351.

No

Replace L1351.

Yes

B

C

D

E

F

Step 5-2: X'tal, Reset

X1301 X'tal

P1Is oscillation
of 13.5 MHz
?

No

Check the X1301.

No

Replace X1301 or IC1301.

Yes

IC1301(Pin 47) XVCIRST

N1Is the voltage
"H"(3.3 V)?

No

Check the parts and patterns in
the path(IC501 - IC1301).

No

Replace IC501.

Yes

IC1301(Pin 46) VCSDA

N1Does
a signal output in
constant period
(0 - 3.3 V)
?

No

Check the parts and patterns in
the path(IC501 - IC1301).

No

Replace IC501 or IC1301.

Yes

IC1301(Pin 45) VCSCS

N1Does
a clock output in
constant period
(0 - 3.3 V)
?

No

Check the parts and patterns in
the path(IC501 - IC1301).

No

Replace IC501 or IC1301.

Yes

Step 5-3: INPUT

IC1301(Pin 4) LLC

N1Is there a
CLK?

No

Check the parts and patterns in
the path (IC401 - IC1301).

No

Replace IC401.

Yes

IC1301(Pins 29,
32-35,38-40) P22-29**N1**Is there a
DATA?

No

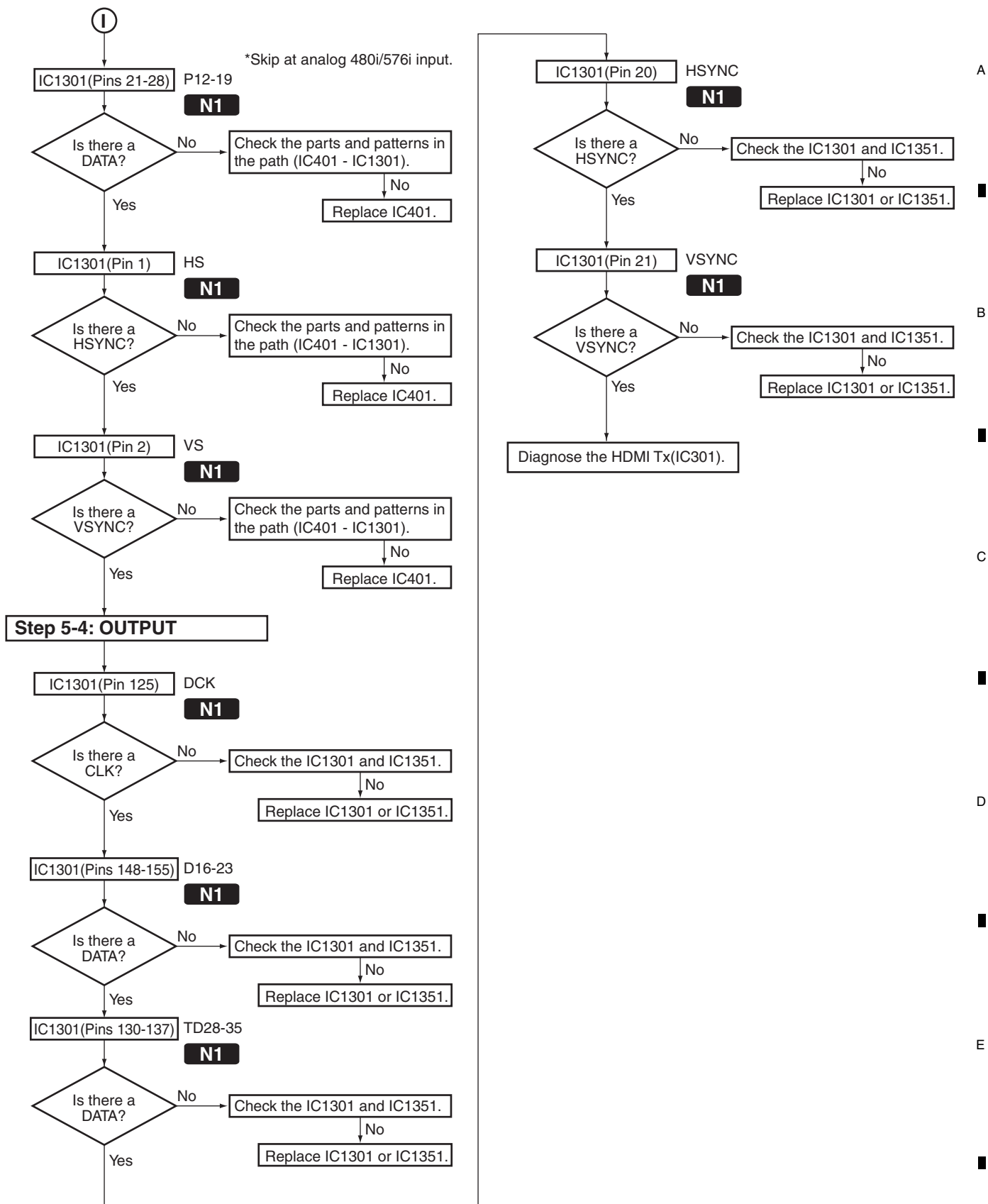
Check the parts and patterns in
the path (IC401 - IC1301).

No

Replace IC401.

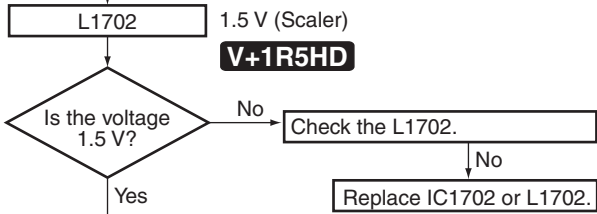
Yes

①

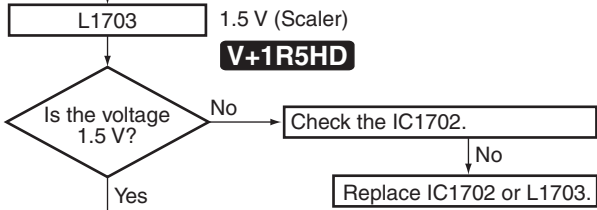


GUI(EMMA) section

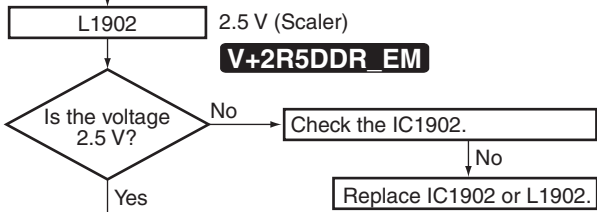
A

Step 6-1: Power supply

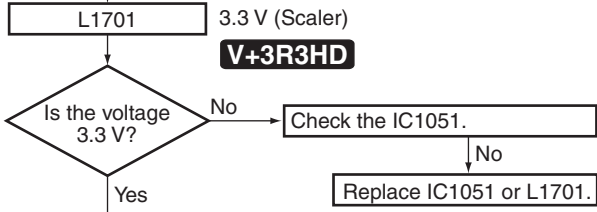
B



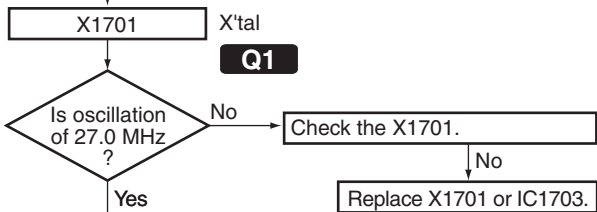
C



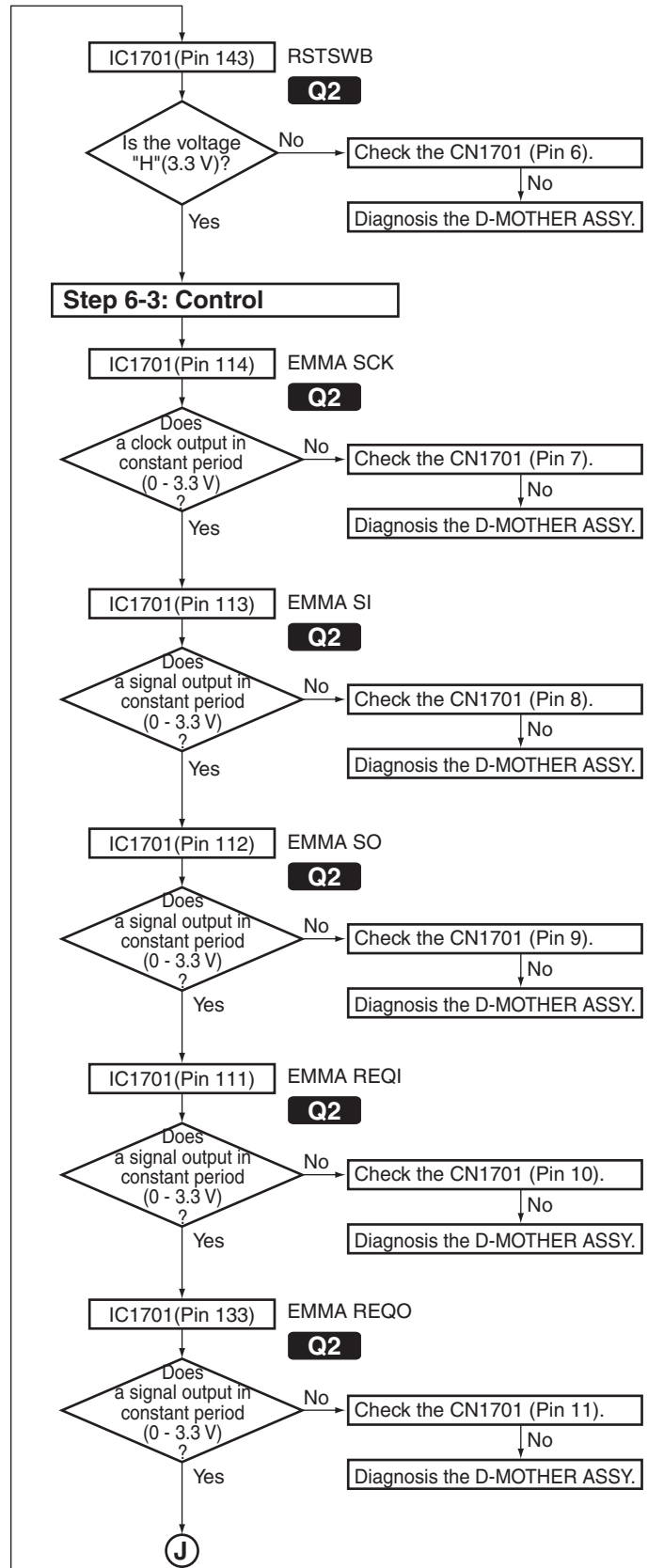
D

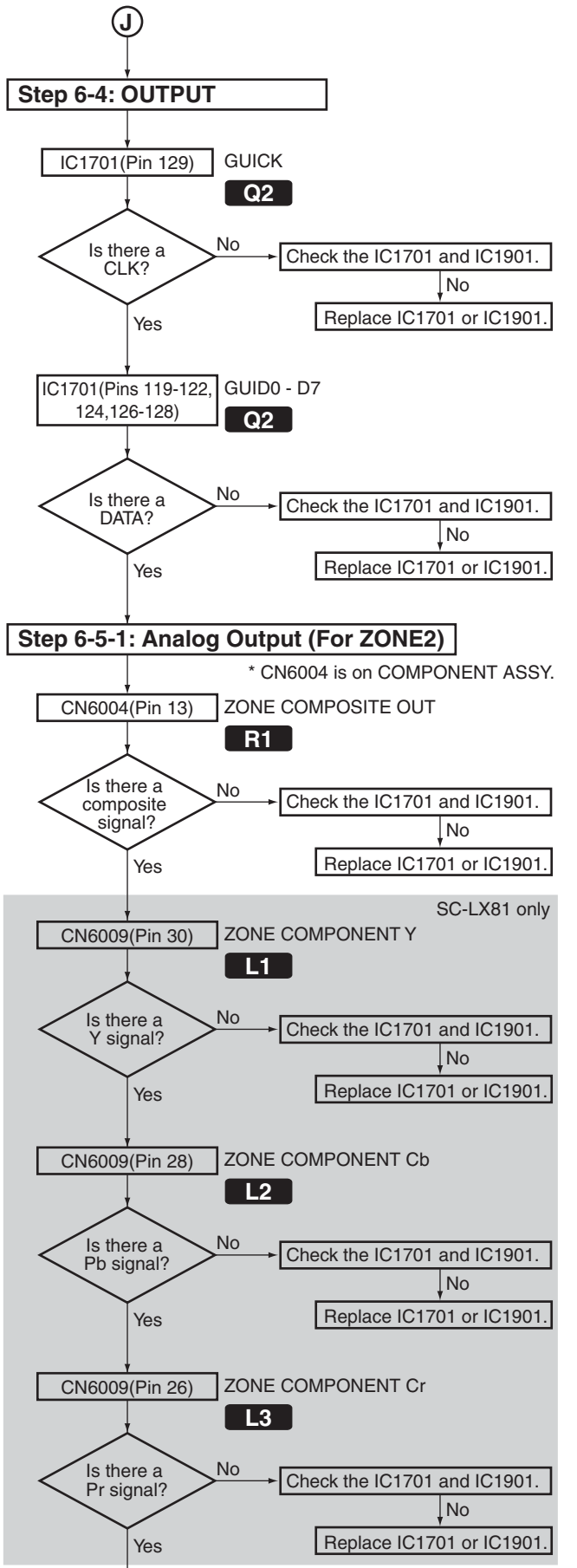


E

Step 6-2: X'tal, Reset

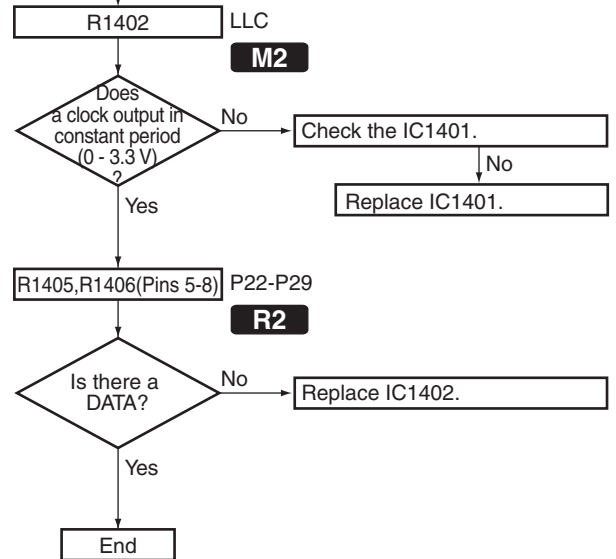
F





Diagnose the COMPONENT ASSY.

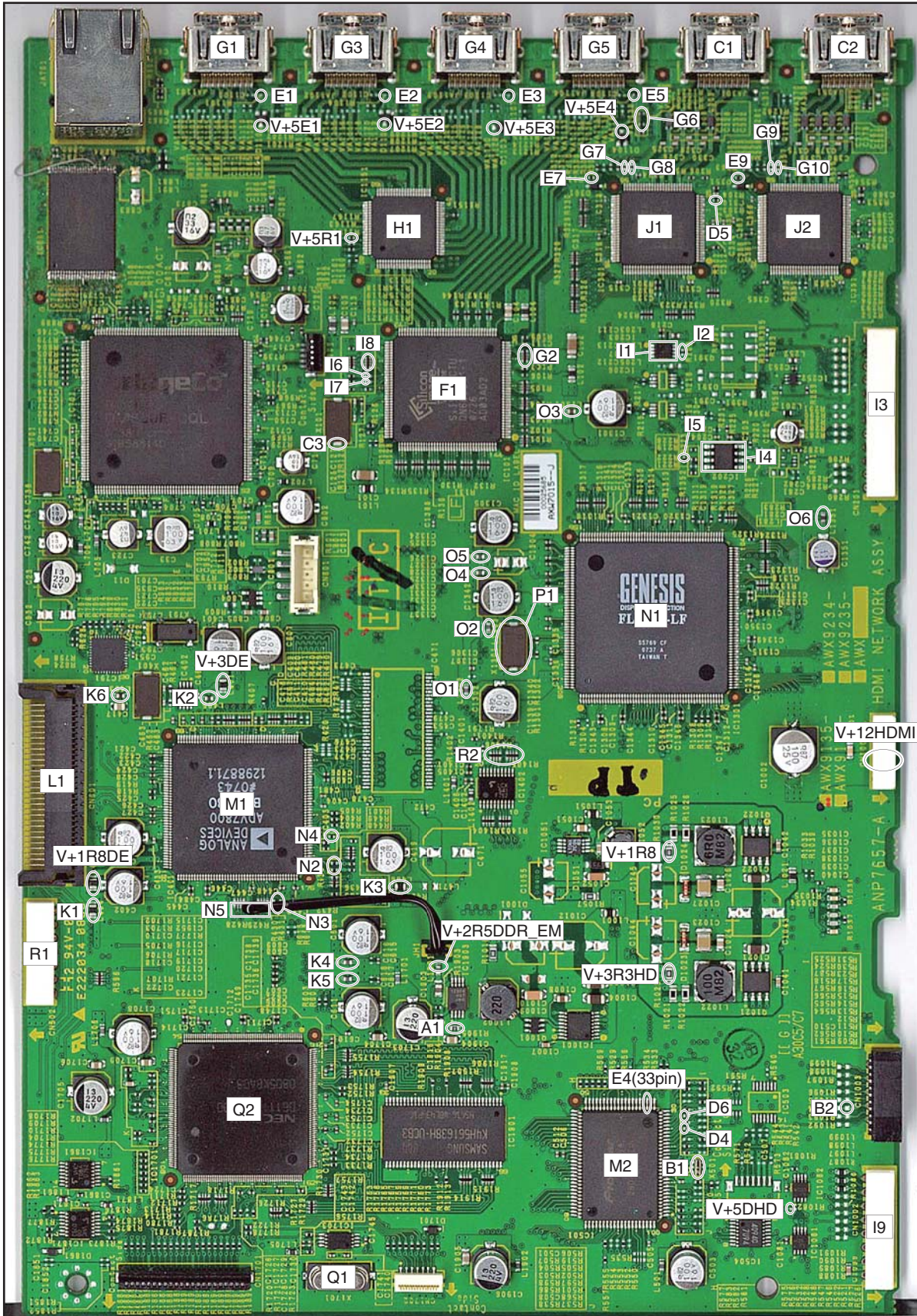
Step 6-5-2: Digital Output (MAIN) [No Scaler]

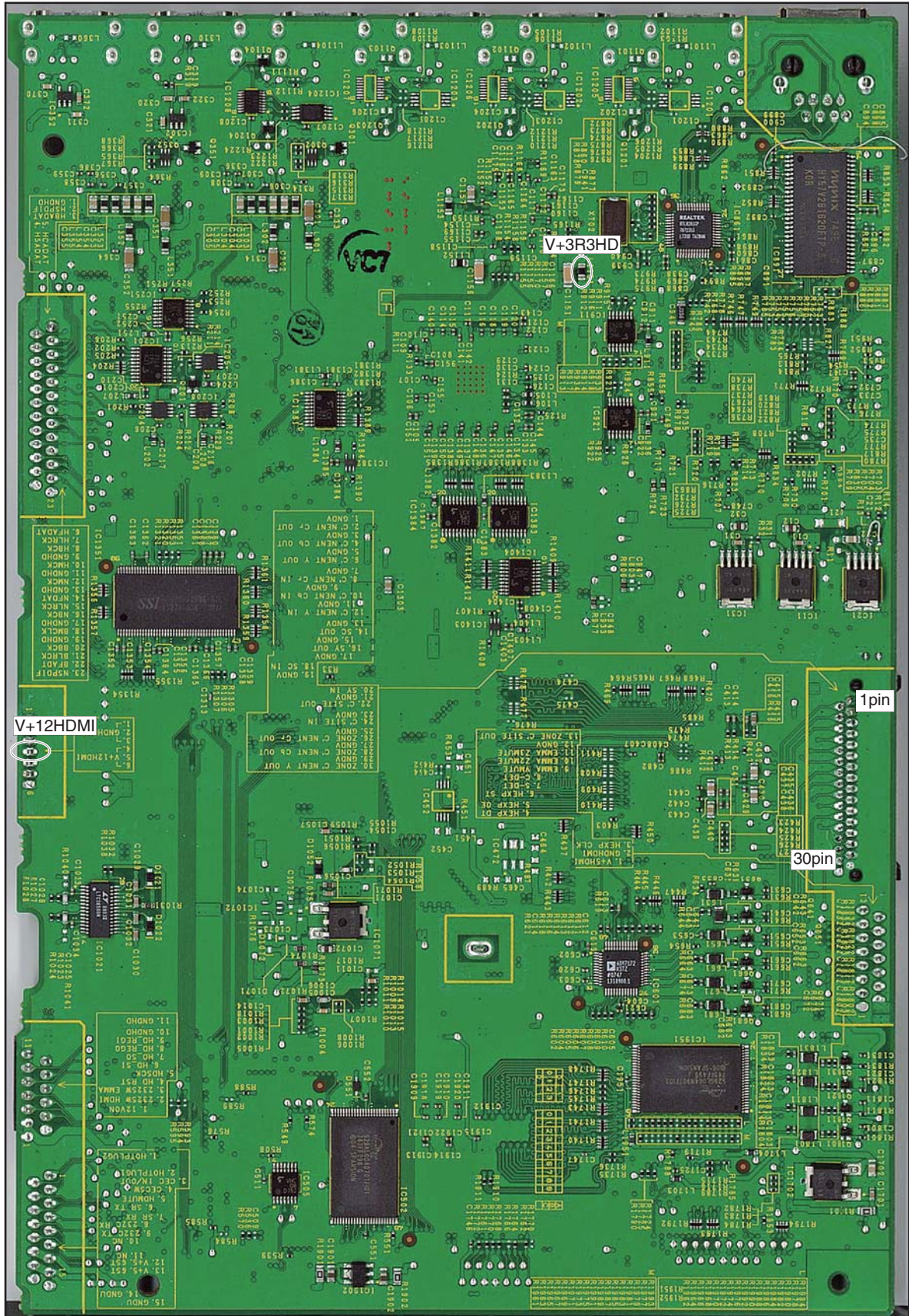


1) HDMI NETWORK Assy check points

E HDMI NETWORK ASSY

SIDE A



E HDMI NETWORK ASSY**SIDE B**

SC-LX81

[4] Diagnosis of The Network Block

1) Constitution of network function

CD --- -- HDMI4 ---- HOME MEDIA GALLERY --

- USB
- Internet Radio
- Neural Music Direct -> Internet radio run by Neural
- Server1
- Server2
- Server3
- Favorites
- Setup

Information

- Firmware Version -> Indicates the version of the firmware.
- MAC Address -> Indicates MAC Address.
- IP Address -> Indicates IP Address.
- Gateway IP -> Indicates Gateway IP.
- Proxy Server -> Indicates if Proxy Server is valid or invalid.
- Subnet Mask -> Indicates Subnet Mask.

Network Setup

2) Flow chart for isolation of network malfunction

<Network connection>

- Internet Radio
 - Neural Music Direct
 - Favorites
 - Setup
- Only those items are shown.

LAN cable is connected?

- No
- Check LAN cable (straight).
 - Check the setting of IP address.
 - Check the setting of broadband router.

Yes

The server software is working on PC?

- No
- Install UPnP server (such as WMP11) on PC.
 - Check the operation of the server software.

Yes

Can the list of the content be shown?

- Yes
- Check the network setting of the connected device.
 - Check if data sharing is permitted on the connected device.
 - Check the audio format compatible with the used server (software).
-> On some servers, neither indication nor playback is performed even in the compatible format.

Yes

Malfunction of this unit

Can the contents be played?

- No
- Check compatible audio format.
-> Some contents cannot be played even in the compatible format.

Yes

Malfunction of this unit

<Internet Radio connection> (Neural Music Direct is the same.)

Internet Radio does not operate (the sound does not play).

Are radio stations shown on the menu?

- No
- Check LAN cable (straight).
 - Check the setting of IP address.
 - Check the setting of the broadband router.

Yes

Is selection of radio stations possible?

- No
- Radio broadcasting is stopped temporarily.
-> The station list does not reflect the actual broadcast condition even if some broadcasts may have been stopped or abandoned.

Yes

Malfunction of this unit

<USB connection>

The unit does not operate (the sound does not play) with USB connected.

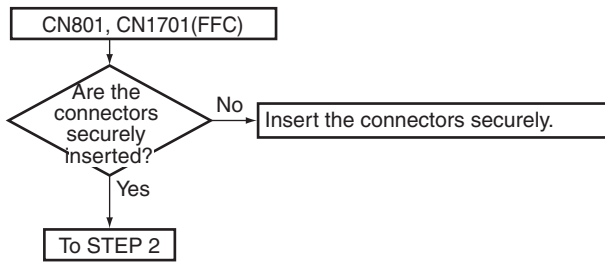
Is "USB" shown on the Top menu?

- No
- Check if USB is a mass storage device.
 - Check the bus power.
-> Power consumption of portable HDD, e.g. does not allow drive.
 - Check the file format of USB.
FAT16 or 32 only can be used.

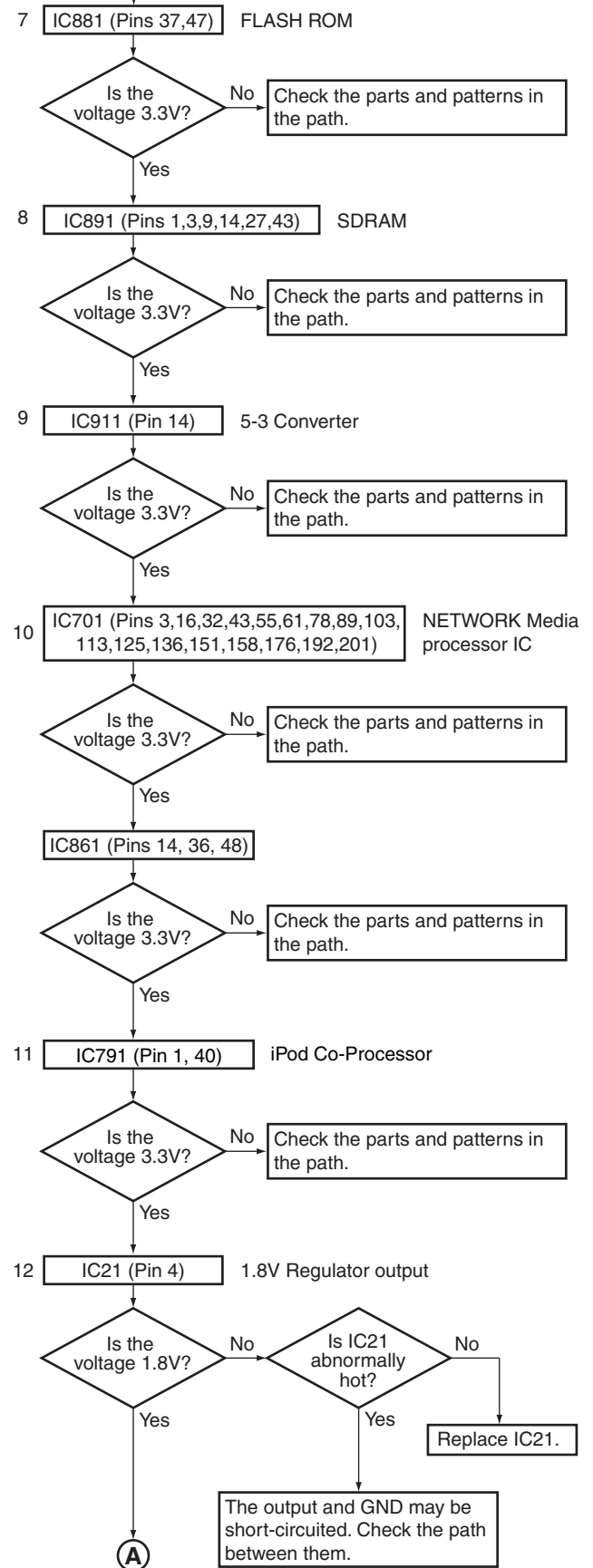
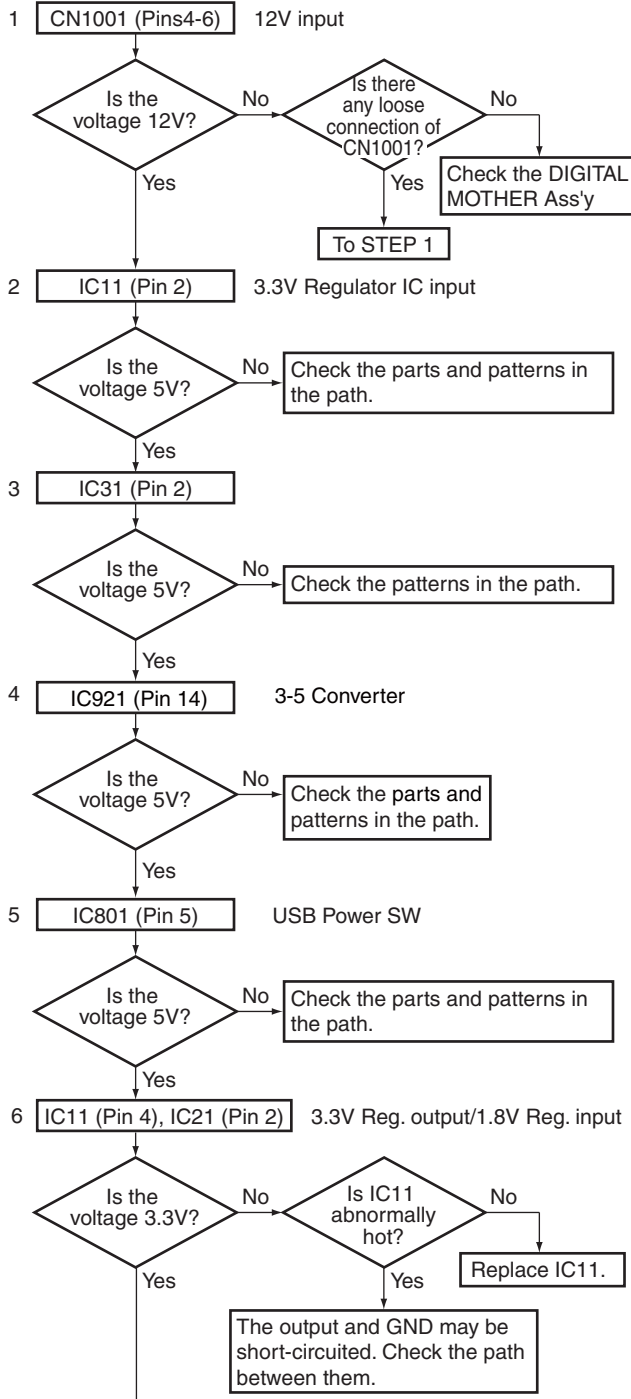
Yes

3) Network block troubleshooting

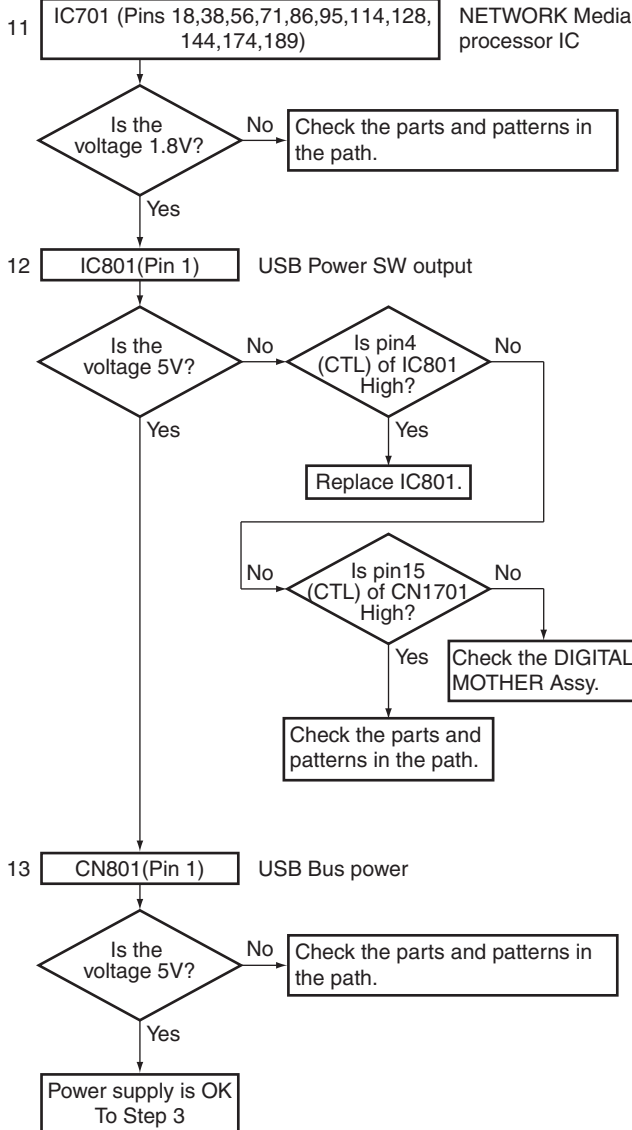
Step 1: Connectors



Step 2: Power supply

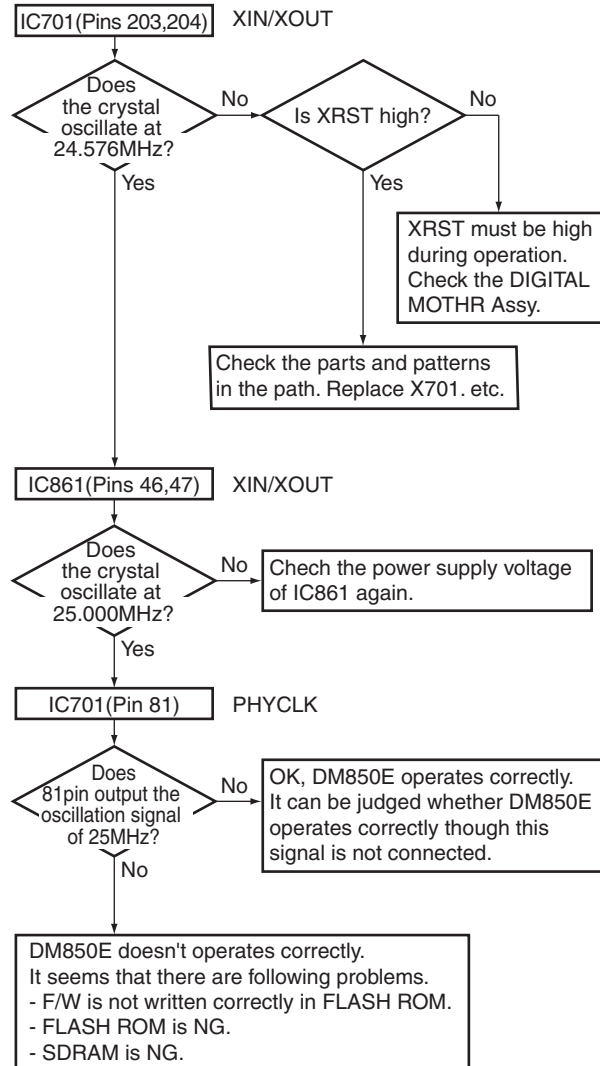


A



Step 3: Operation of Network Media processor IC

*Please confirm it with the USB memory connected for the content.



Step 4 : Communication between DM850E and System CPU

The signal shown by following fig are communication line of DM850E and main CPU(IC2001). Confirm the connection of the signals along these routes.

fig. 1

	CN901	IC911 (5V -> 3V)	IC701
XRST	Pin 12	Pin 12	Pin 11 Pin 190
SPI CS	Pin 21	Pin 2	Pin 3 Pin 143
SPI CLK3	Pin 14	Pin 5	Pin 6 Pin 141
SPI MOSI	Pin 18	Pin 9	Pin 8 Pin 147

fig. 2

	IC701	IC921 (3V -> 5V)	CN901
SPI MISO	Pin 146	Pin 9	Pin 8 Pin 19
SPI REQ3	Pin 100	Pin 5	Pin 6 Pin 20

Step 5 : Communication between DM850E and System CPU

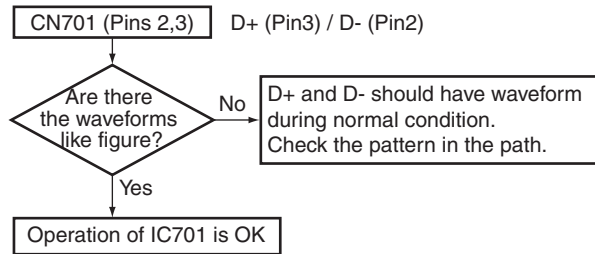
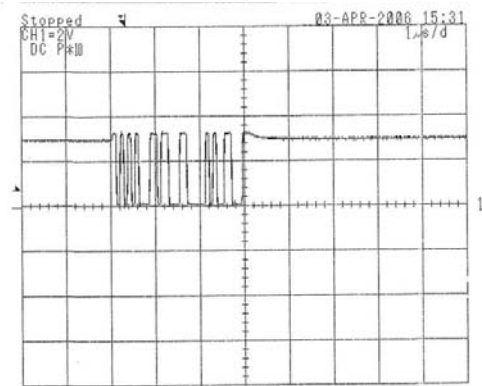
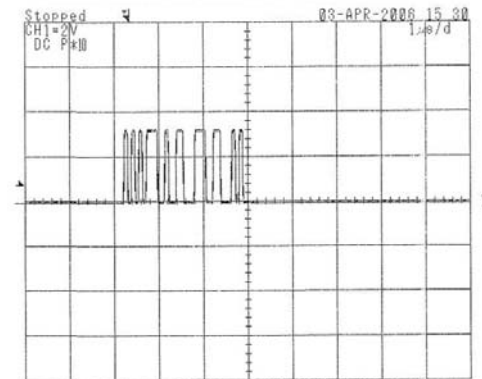


fig. : D+



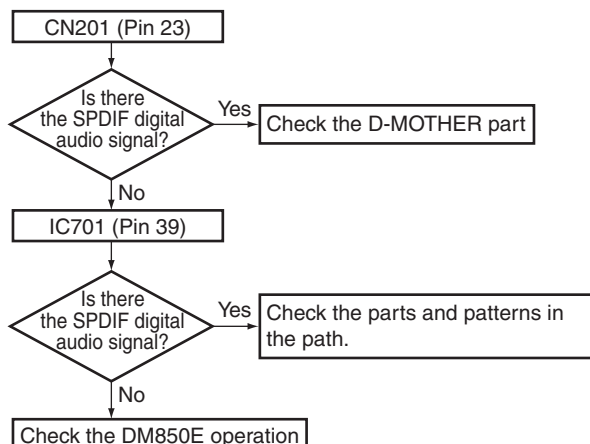
X : 1usec/div, Y : 2V/div

fig. : D-

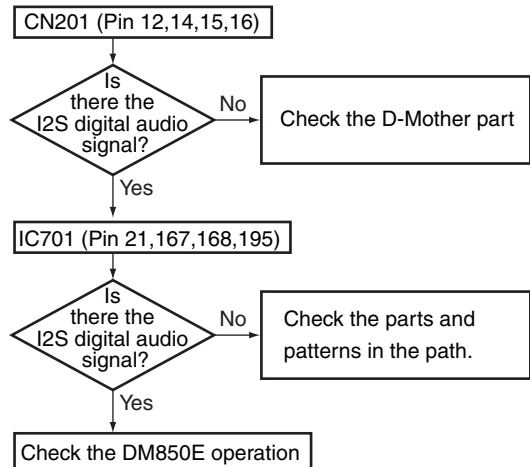


X : 1usec/div, Y : 2V/div

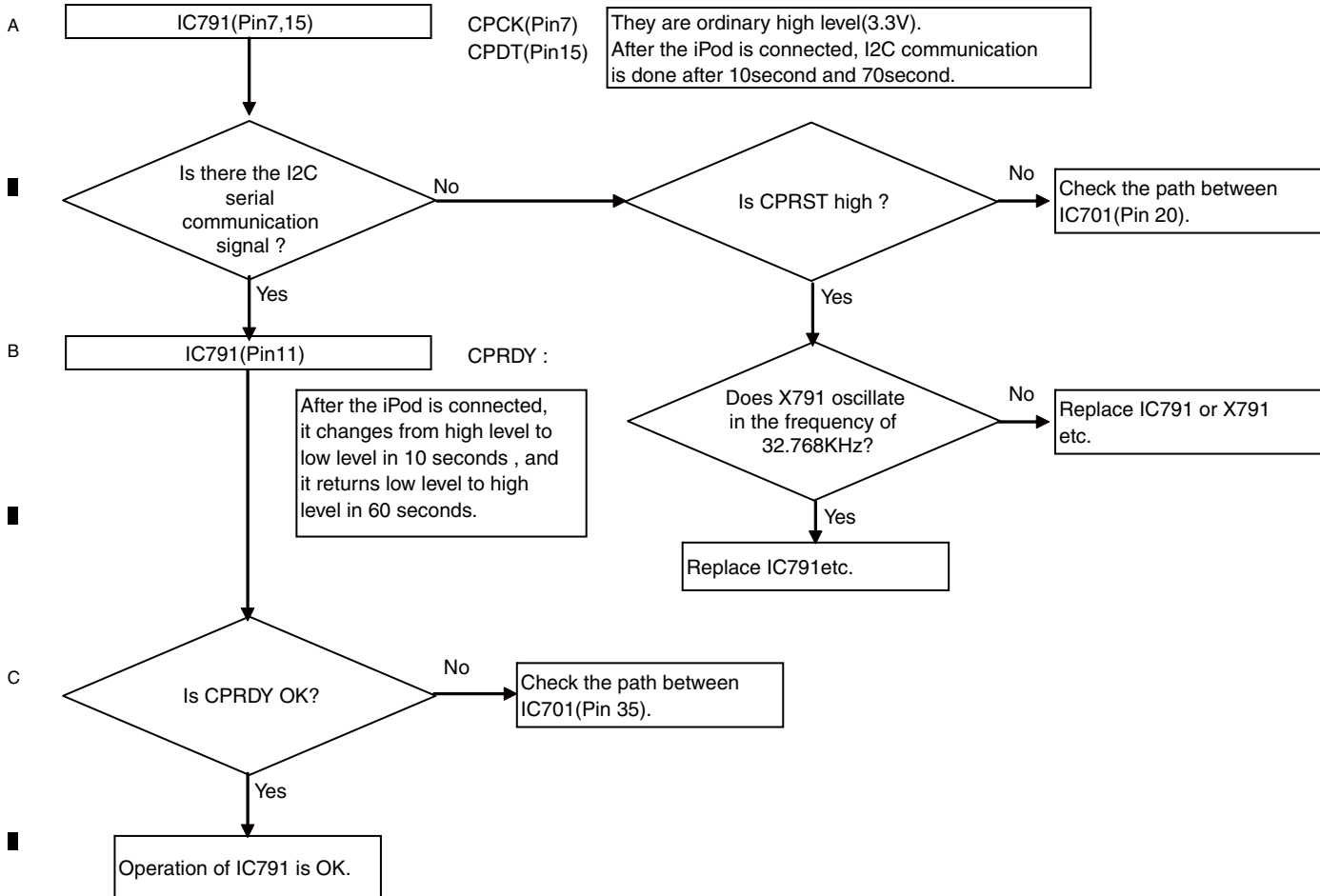
Step 6 : Audio Output



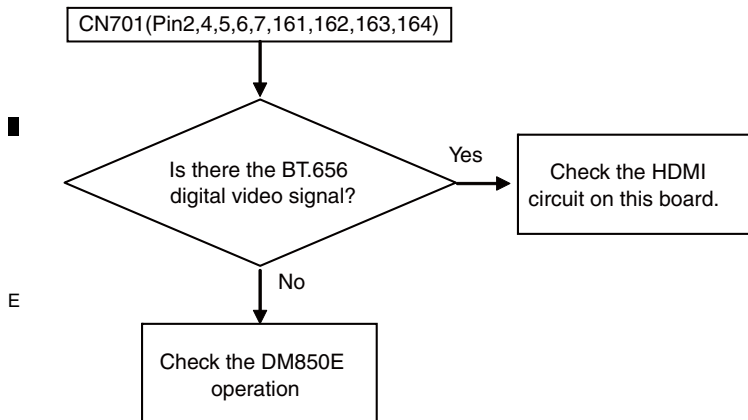
Step 7 : Audio Output (Zone2)



Step 8 : Communication between DM850E and iPod Co-Processor



Step 9 : Photo Image Output



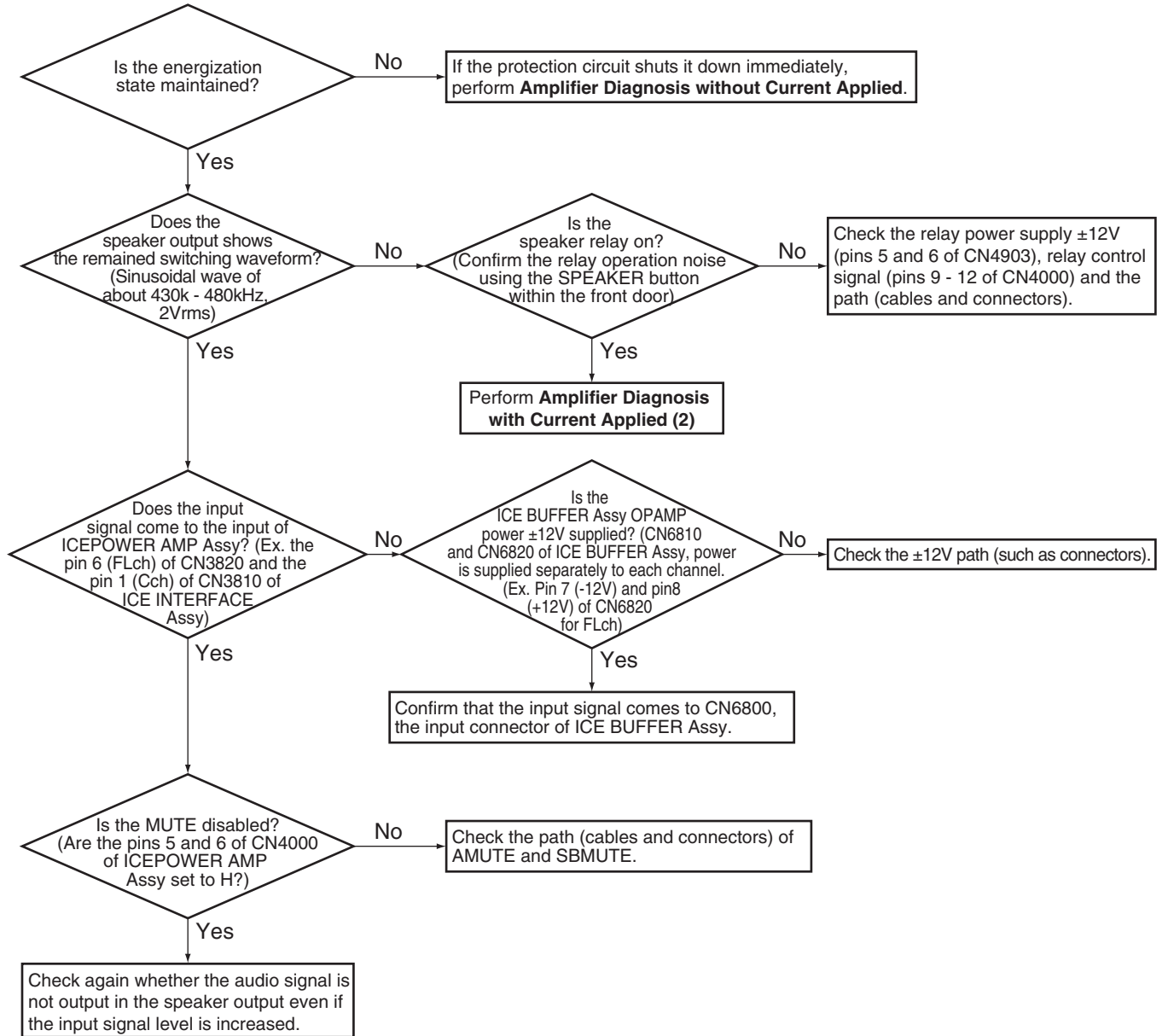
[5] Power Amp Section Troubleshooting

In the speaker output, the sinusoidal wave of about 430k - 480 kHz 2Vrms (when immediately after the current is applied with no signal/no load; the switching frequency varies by the connected load, signal level and the energizing time) is always output. It is the switching waveform ($\pm 64V$ square wave) in the output stage that has been attenuated through LPF. If such remained waveform can be observed, it can be assumed that the amplifier is operating normally.

When a signal is input to the amplifier, the output signal of the speaker shows the waveform such that the remained switching waveform is superimposed onto the audio signal. Note that when the input signal level is extremely small, it may not be easy to confirm the audio element since it is buried in the remained switching waveform (approximately 2Vrms).

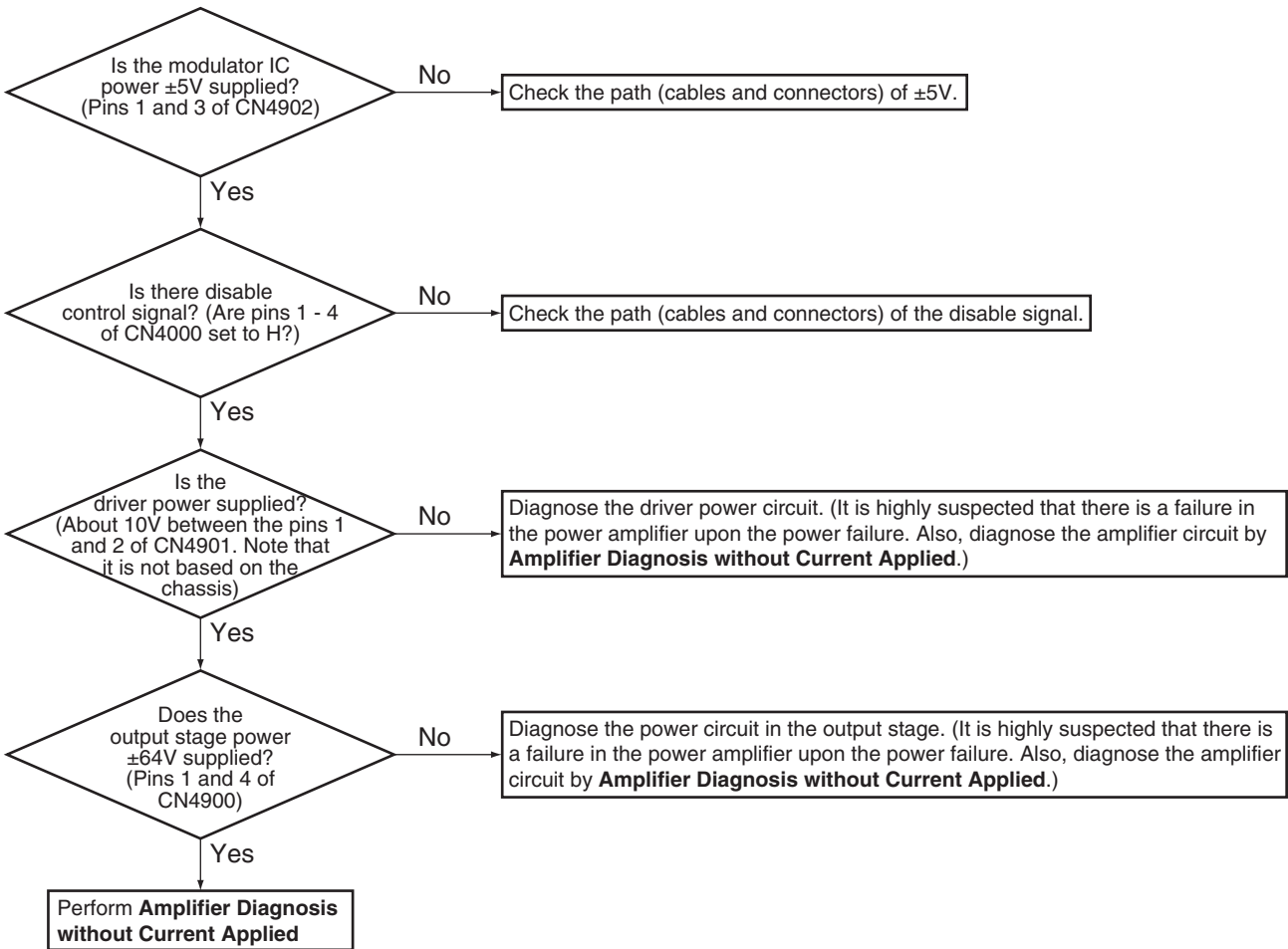
When no sound is produced with a specific function or sound mode, it is not caused by a failure in the power amplifier block. When there is a failure in the power amplifier block, no sound is produced with every function. It is recommended to set the speaker setting to "LARGE" for all the channels and the function to "MULTI CH IN" when examining the power amplifier.

Amplifier Diagnosis with Current Applied (1)



Amplifier Diagnosis with Current Applied (2)

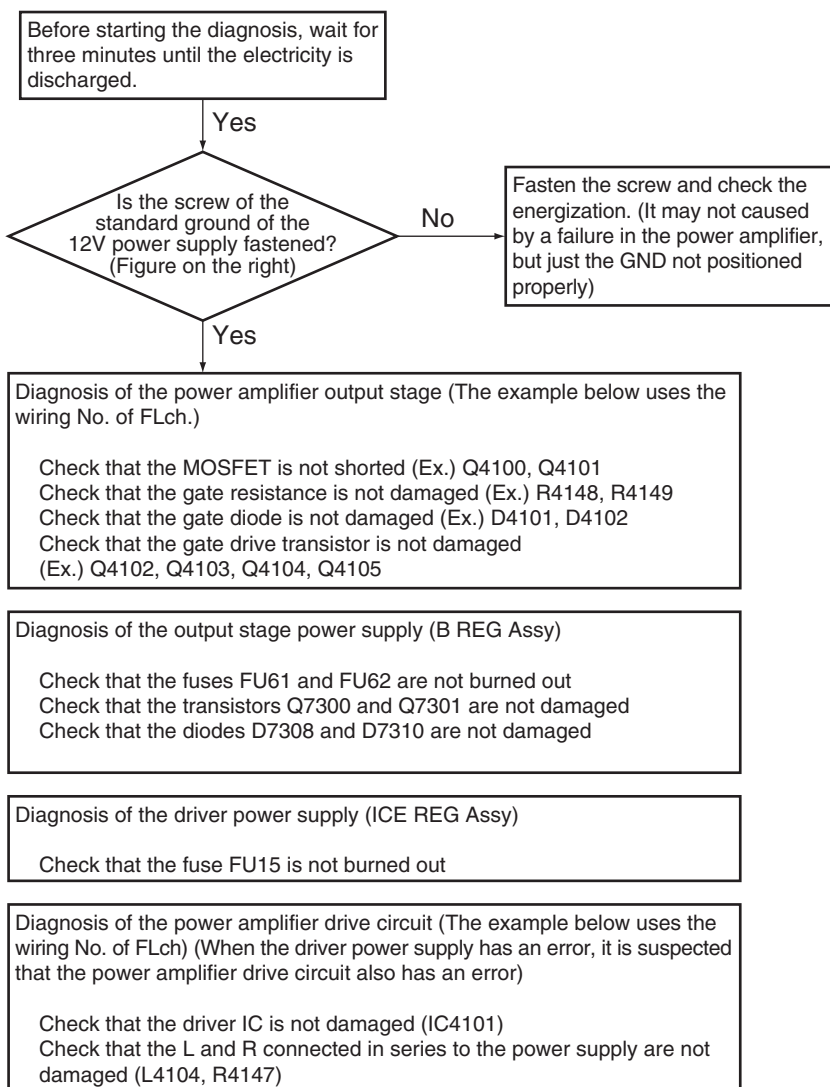
When the remained switching waveform is not observed in the speaker output, the amplifier is not operating. Here, confirm that the power and signal necessary for the amplifier to operate are supplied.



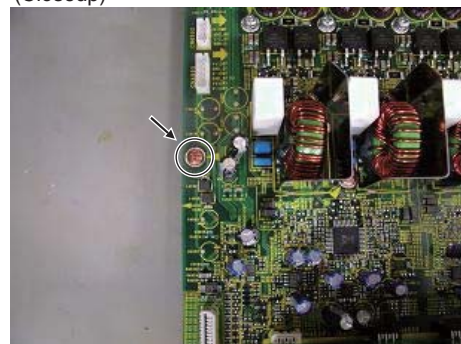
Amplifier Diagnosis without Current Applied

The most common symptom of the power amplifier failure is the destruction of the power amplifier output stage or the power amplifier power circuit due to the heavy load, which is, for example, caused by short of the speaker terminal or the use of the non-guaranteed low impedance speaker.

If the protection circuit immediately shuts it down immediately after the current is applied, it is highly likely that it is the above symptom. The procedure to diagnose/repair without applying current is shown below.



(Closeup)



5.2 CIRCUIT DESCRIPTION

[1] Protection Circuit Process List

B REG Power Supply

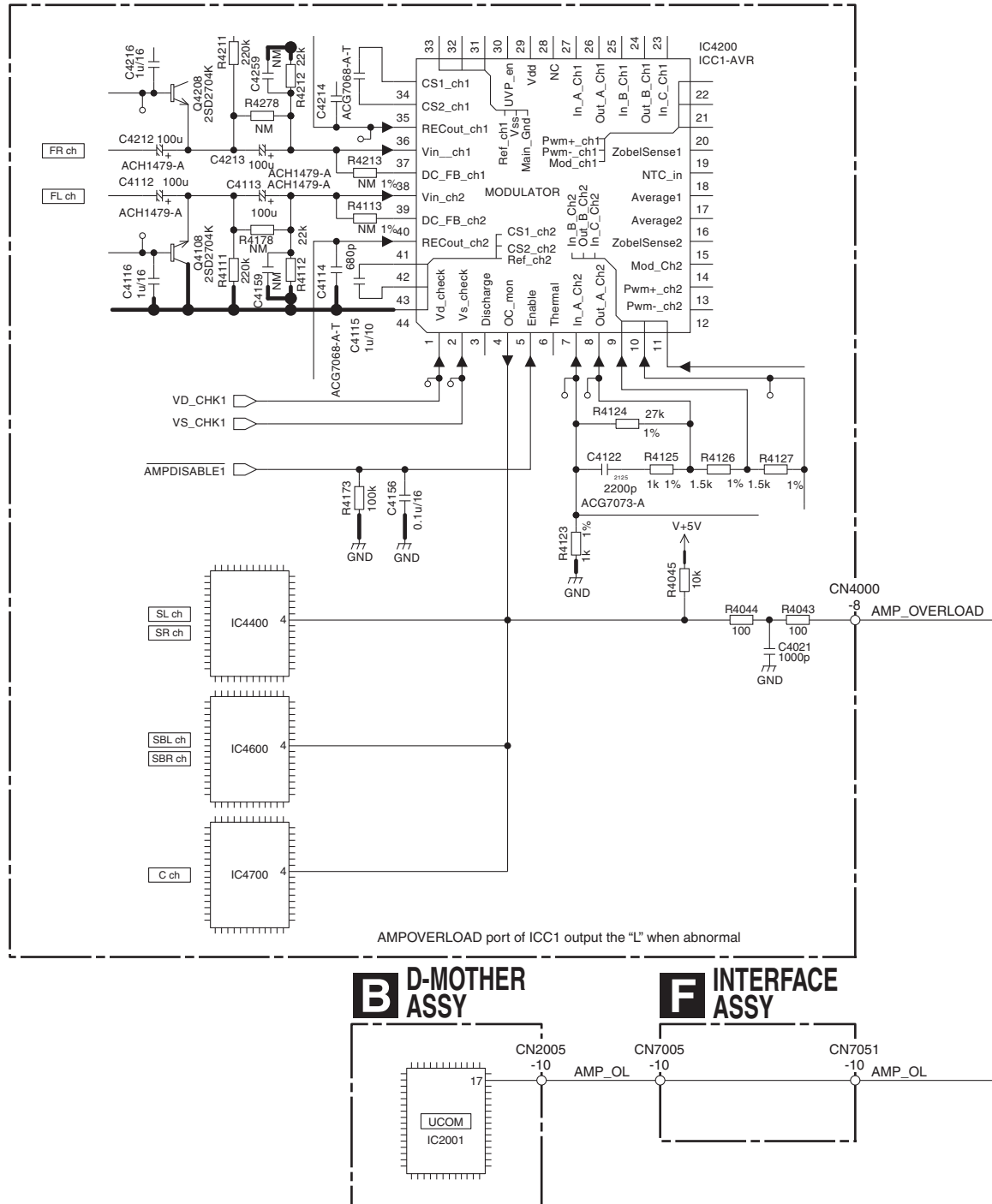
Item	Purpose	Detection Method	Status of Equipment	Warning Indication	Remarks
B REG power supply overheat detection	Detects overheat of transistor(s) in B REG power supply circuit	Detects when posistor detection temperature exceeds 120°C and BTMP port becomes "H". (IC2001 48pin)	Flashes "OVERHEAT" indicator. Shuts down at continuation for more than 3 seconds. LED indicator continues blinking.	"OVERHEAT" and 3 second flashing. Blinks ICE blue LED indicator.	Recoverable by power-on
B REG power supply failure detection	Detect abnormal voltage drop when B REG transistor(s) becomes failure	Detects output voltage of B REG power cuicuit decreases below 38V and BERR port becomes "L". (IC2001 47pin)	Shuts down	Blinks MCACC LED	Unrecoverable

Amplifier Circuit

Item	Purpose	Detection Method	Status of Equipment	Warning Indication	Remarks
Overheat detection	Detects MOS FET temperature of amplifier output stage	Detects when TEMPERR PORT becomes "L" in case of the detecting temperature exceeds 95°C or rapid change by short cuicuit of speaker terminals. (IC2001 89pin)	Shuts down with FL indication of "AMP OVERHEAT". LED indicator continues blinking.	Indicates "AMP OVERHEAT". Blinks ICE blue LED indicator.	Recoverable by power-on
		Detects when MAXTEMP port becomes below 3.3V at NTC Thermistor detect circuit. (IC2001 91pin)	Fan rotates below 3.3V.		
DC detection	Detects DC of amplifier output (After LPF)	Detects when SP output exceeds DC $\pm$ 7V and DCERR port becomes "L". (IC2001 90pin)	Let MUTE on, Speater Relay off and shuts down 3 seconds after to blink MCACC LED.	Flashes "AMP ERR"indicator. Blinks MCACC LED	In case of detecting DC abnormality during power-on sequence after detecting DC. Unrecoverable
			Let MUTE on, Speater Relay off and shuts down 3 seconds after to blink ICE blue indicator.	Flashes "AMP ERR"indicator. Blinks ICE blue LED indicator.	In case of detecting DC abnormality during normal operation. Recoverable by power-on after 1 minute.
Fan abnormality detection	Detects a Fan not rotating by loose connector or Fan lock when controlling the Fan rotation	Detects when FANDET port becomes "L". (IC2001 88pin)	Shuts down when abnormality continues for more than 3 seconds.	Flashes "FAN STOP"indicator. Blinks Digital Video Scaler LED	Recoverable by power-on
Zobel detection	Protects overcurrent by Zobel Resistance when high power output of higher frequency continued	Detects OLERR port becomes "L". (IC2001 17pin)	Shuts down	Blinks PHASE CONTROL LED	Recoverable by power-on
Overcurrent detection	Protects overcurrent of MOS FET in output stage when overcurrent flows at the output stage	Detects OLERR port becomes "L". (IC2001 17pin)	Shuts down	Blinks PHASE CONTROL LED	Recoverable by power-on
Low Voltage detection (Amplifier power supply)	Detects low voltage when amplifier power supply voltage (normally $\pm$ 64V) becomes below $\pm$ 42V	Detects OLERR port becomes "L". (IC2001 17pin) AMP_Overload DET	Shuts down	Blinks PHASE CONTROL LED	Recoverable by power-on
Low Voltage detection (Modulator IC)	Detects low voltage of modulator IC power supply (normally $\pm$ 5V) becomes below $\pm$ 2 - 3V	No micro-computer detection exists.	No micro-computer control but modulator IC stops by itself.		Recoverable by power-on

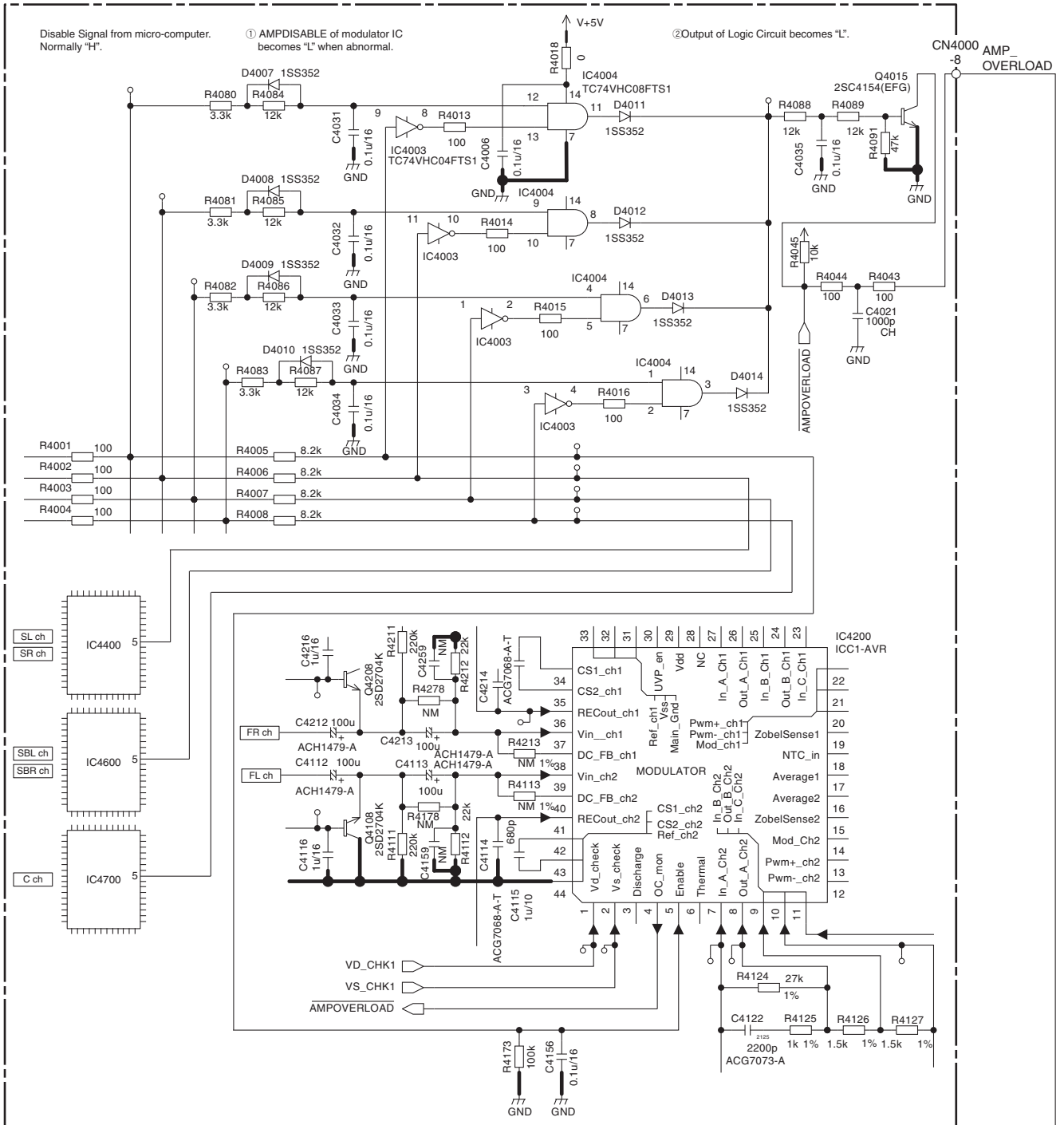
Zobel Detection Over Current Detection of MOS FET in Output Stage

Q ICEPOWER AMP ASSY



Low Voltage Detection for Amplifier Power Supply

Q ICEPOWER AMP ASSY



[2] Error Indications When an Abnormality in The Amplifier System Is Detected

[Purpose]

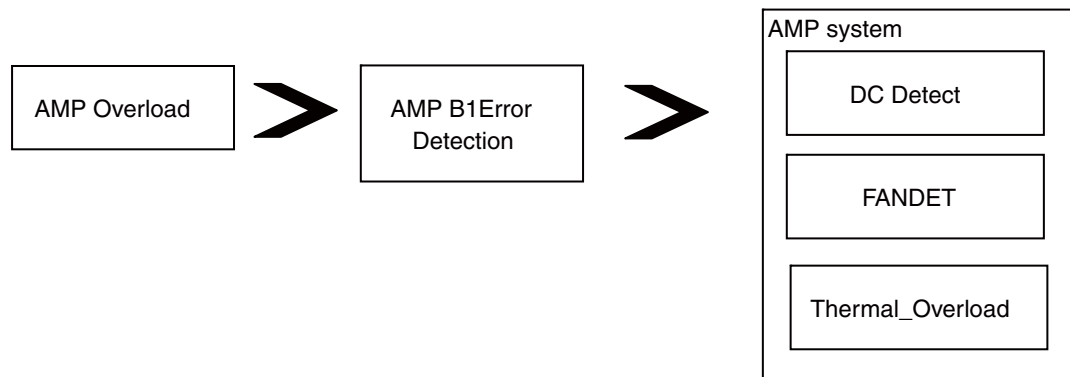
Errors upon detection of abnormalities in the amp system are indicated.

[Error indications]

	FL Display	LED flashes	Status	Timing (sec.)	Remarks
(1)	AMP ERR	ICE Blue LED	When the AMP DC is detected during normal operation.	FL flashes 3 times. LED flashes after the power off.	
		MCACC LED	When the AMP DC is detected during power-on sequence after the DC output was once detected.	FL flashes 3 times. LED flashes after the power off.	
(2)	NA	PHASE CONTROL	When an abnormality of electric current of output stage is detected.	LED flashes after the power off.	
(3)	NA	PHASE CONTROL	When an abnormality of overheat of output stage is detected.	LED flashes after the power off.	
(4)	FAN STOP	VIDEO SCALER	When an abnormality is detected in the fan for the AMP.	FL flashes 3 times. LED flashes after the power off.	
(5)	OVERHEAT	ICE Blue LED	When an abnormality of overheat is detected in the power supply B REG circuit.	FL flashes 3 times. LED flashes after the power off.	Abnormality detection in the power supply B REG circuit
(6)	NA	MCACC LED	When an abnormality is detected in the output voltage of the power supply B REG circuit.	LED flashes after the power off.	
(7)	12V TRG ERR	NA	When the 12V trigger circuit is short-circuited.	Flashes	
(8)	USB ERROR1	NA	When the overload USB device (over500 mA) is connected.	Flashes	
(9)	HDCP ERROR	NA	When an HDCP ERROR is detected.	Flashes 5 seconds	Warning indication for HDMI Simplay
(10)	NOT SUPPORT	NA	When the monitor outputs a non supported video format.	Flashes 5 seconds	
(11)	HDMI NG	NA	When an error is detected during communication with the HDMI micro-computer.	Flashes	Warning indication for microcomputer communication
(12)	DSP NG	NA	When an error is detected during communication with the DSP micro-computer.	Flashes	

[Detection and display priority]

In principle, the abnormality is preferentially detected as the following order.



[Descriptions]

(1)	AMP ERR	In Normal Operation mode, if a failure in the amp block or high DC output is detected, "AMP ERR" appears and starts flashing, and the shutdown process starts. The power is shut off, and the ICE Blue LED starts flashing. To restore the previous status 1 minutes or more after a shutdown, just turn the unit back on.
		If a failure in the amp block or high DC output is detected during a power-on sequence after high DC output was once detected, "AMP ERR" appears and starts flashing, and the shutdown process starts. The power is shut off, and the MCACC LED starts flashing. To restore the previous status, follow the procedure described in "How to Enter Release Mode" below then turn the unit back on. If the unit shuts off again, the AMP block may be in failure.
(2)	Overcurrent detection	Upon detection of overcurrent in the MOSFET at the amp output stage, the unit power off immediately, and the PHASE CONTROL LED starts flashing. The previous stage will be restored when the unit is turned back on.
(3)	Overheat detection	If abnormality temperature is detected in the MOSFET at the amp output stage, the unit power off immediately, and the PHASE CONTROL LED starts flashing. To restore the previous status, turn the unit back on.
(4)	FAN STOP	If abnormality is detected in the fan for the AMP, "FAN STOP" appears and starts flashing, and the shutdown process starts. The power is shut off. The VIDEO SCALER LED starts flashing. To restore the previous status, turn the unit back on.
(5)	OVERHEAT	If abnormality temperature is detected in the power supply B REG circuit, the unit power off immediately, and the ICE Blue LED starts flashing. To restore the previous status, turn the unit back on.
(6)	Failure in the power supply B REG circuit	If abnormality voltage is detected in the power supply B REG circuit, the unit power off immediately, and the MCACC LED starts flashing. To restore the previous status, follow the procedure described in "How to Enter Release Mode" below then turn the unit back on. If the unit shuts off again, the AMP block may be in failure.
(7)	12V TRG ERR	The 12V trigger circuit is short-circuited, and a overcurrent is generated.
(8)	USB ERROR1	The connected USB device is overload.
(9)	HDCP ERROR	The monitor does not support HDCP type or is in standby mode.
(10)	NOT SUPPORT	When an input analog signal is converted and output as an HDMI signal (via the scaler), the output signal is of a resolution not supported by the connected monitor.
(11)	HDMI NG	There is no response from the HDMI microcomputer.
(12)	DSP NG	There is no response from the DSP microcomputer.

[How to Enter Release Mode]

During Standby mode, simultaneously press and hold the " ↓ (DOWN)" and "ZONE2 ON/OFF" keys for 2 seconds.

1

2

3

4

6. SERVICE MODE

6.1 TEST MODE

A

The Service mode has three functional blocks (VERSION block, PROTECT block and DOWNLOAD block).

[1] How to Enter The Service Mode

1. Turn off MULTI-ZONE. Lower MASTER VOLUME to the minimum (---dB) and turn off the power.
2. After the power-off, press and hold down both the "ENTER" key and the "MULTI-ZONE ON/OFF" key for approximately five seconds.

[2] How to Exit The Service Mode

Turning off the power or pressing the RETURN key returns to the normal mode.

[3] Mode Transition Methods For Each of The VERSION Block, PROTECT Block and DOWNLOAD Block

B

*If no key is pressed within 10 seconds, the Service mode returns to the normal mode.

Key operation	FL display
VERSION block 1/4 Display MAIN / EVENT microcomputer. [→] [←]	M1.000E1.000
PROTECT block 1/11 Display number of times DC is detected. [→] [←]	DC : 000
DOWNLOAD block 1/7 Display MAIN computer DOWNLOAD. [→] [←] Return to VERSION block 1/4.	MAIN DL[START]

D

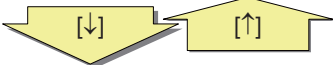
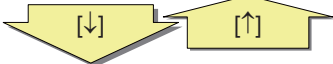
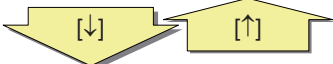
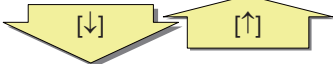
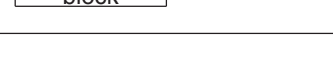
E

F

1) VERSION block

This block displays version information of various microcomputers and DSP firmware.

*If no key is pressed within 10 seconds, the Service mode returns to the normal mode.

Key operation	FL display	Explanation on displayed versions
Test mode ON 		
VERSION block 1/4 MAIN/EVENT microcomputer 	M 1 . 0 0 0 E 1 . 0 0 0	M * . *** : MAIN microcomputer E * . *** : EVENT microcomputer
VERSION block 2/4 DISPLAY (EMMA) microcomputer 	D I S P 1 . 0 0 0	DISP * . *** : DISPLAY microcomputer
VERSION block 3/4 DSP/HDMI microcomputer 	D 1 . 0 0 0 H 1 . 0 0 0	D * . *** : DSP microcomputer H * . *** : HDMI microcomputer
VERSION block 4/4 1stDSP/2ndDSP firmware 	f 1 . 0 0 0 s 1 . 0 0 0	f * . *** : 1st DSP firmware s * . *** : 2nd DSP firmware
To PROTECT block 		

2) PROTECT block

This block displays number of times protection processing is detected.

*If no key is pressed within 10 seconds, the Service mode returns to the normal mode.

Key operation	FL display
PROTECT block 1/11 Display number of times DC is detected. ↓ ↑	DC : 0 0 0
PROTECT block 2/11 Display number of times OVERLOAD is detected. ↓ ↑	OVER : 0 1 0
PROTECT block 3/11 Display number of times COMBINATION is detected. (Detects DC and OVERLOAD simultaneously) ↓ ↑	CON : 0 0 2
PROTECT block 4/11 Displays number of times FAN error is detected. ↓ ↑	FAN : 0 0 2
PROTECT block 5/11 Display number of times overheat is detected. ↓ ↑	TEMP1 : 2 5 5
PROTECT block 6/11 Display number of times abnormal temperature is detected. ↓ ↑	TEMP2 : 2 5 5
PROTECT block 7/11 Displays number of times abnormal temperature at PowerAmp supply is detected. ↓ ↑	BTMP : 1 2 6
PROTECT block 8/11 Display number of times defect at PowerAmp supply is detected. ↓ ↑	BERR : 1 2 5

Key operation	FL display
PROTECT block 9/11 Resetting the number of times error is detected [↓] [↑]	RESET ◀ HOLD ▶
PROTECT block 10/11 Display accumulated time & RESET. [↓] [↑]	1 2 3 4 5 h 2 0 m ◀ H L D ▶
PROTECT block 11/11 The Timer of Exception "Set Stream Path" command on CEC. [↓] [↑]	E X . S S P ◀ 1 5 0 0 m s ▶
To DOWNLOAD block	

Resetting the number of times error is detected

Key operation	FL display
[←][→]	RESET ◀ CLEAR ? ▶
[ENTER]	RESET [RESET]
To normal mode	

Resetting the accumulated time

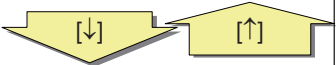
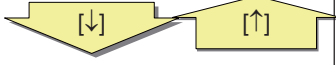
Key operation	FL display
[←][→]	1 2 3 4 5 h 2 0 m ◀ CL ? ▶
[ENTER]	0 h 0 m ◀ RST ▶
To normal mode	

Setting of the Timer of Exception "Set Stream Path" command on CEC.

Key operation	FL display
[←][→]	E X . S S P ◀ 6 0 0 m s ▶
To normal mode	

3) DOWNLOAD block

This block enters the rewriting mode of various microcomputers and DSP firmware.

Key operation	FL display
DOWNLOAD block 1/7 MAIN computer DOWNLOAD 	MAIN DL[START]
DOWNLOAD block 2/7 EVENT computer DOWNLOAD 	EVNT DL[START]
DOWNLOAD block 3/7 DISP computer DOWNLOAD 	DISP DL[START]
DOWNLOAD block 4/7 DSP computer DOWNLOAD 	DSPM DL[START]
DOWNLOAD block 5/7 HDMI computer DOWNLOAD 	HDMI DL[START]
DOWNLOAD block 6/7 1stDSP FIRM DOWNLOAD 	DSP1 DL[START]
DOWNLOAD block 7/7 2ndDSP FIRM DOWNLOAD 	DSP2 DL[START]
To VERSION block	

7. DISASSEMBLY

Note 1: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

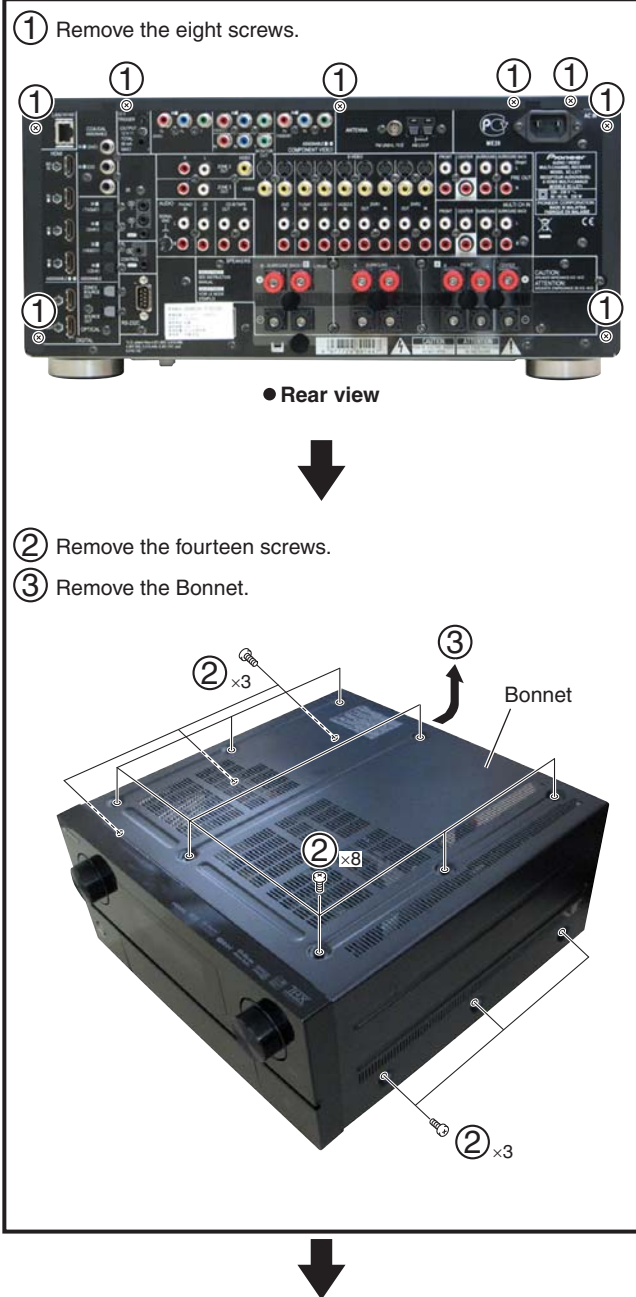
Note 2: For performing the diagnosis shown below, the following jigs for service is required:

- 27P FFC (GGD1588)
- 19P FFC (GGD1589) x2
- 21P FFC (GGD1590)
- 16P FFC (GGD1591)
- 30P+13P board to board extension jig cable (GGD1592)
- 17P+19P board to board extension jig cable (GGD1593)
- 5P PH HOUSING ASSY (GGD1594) x3

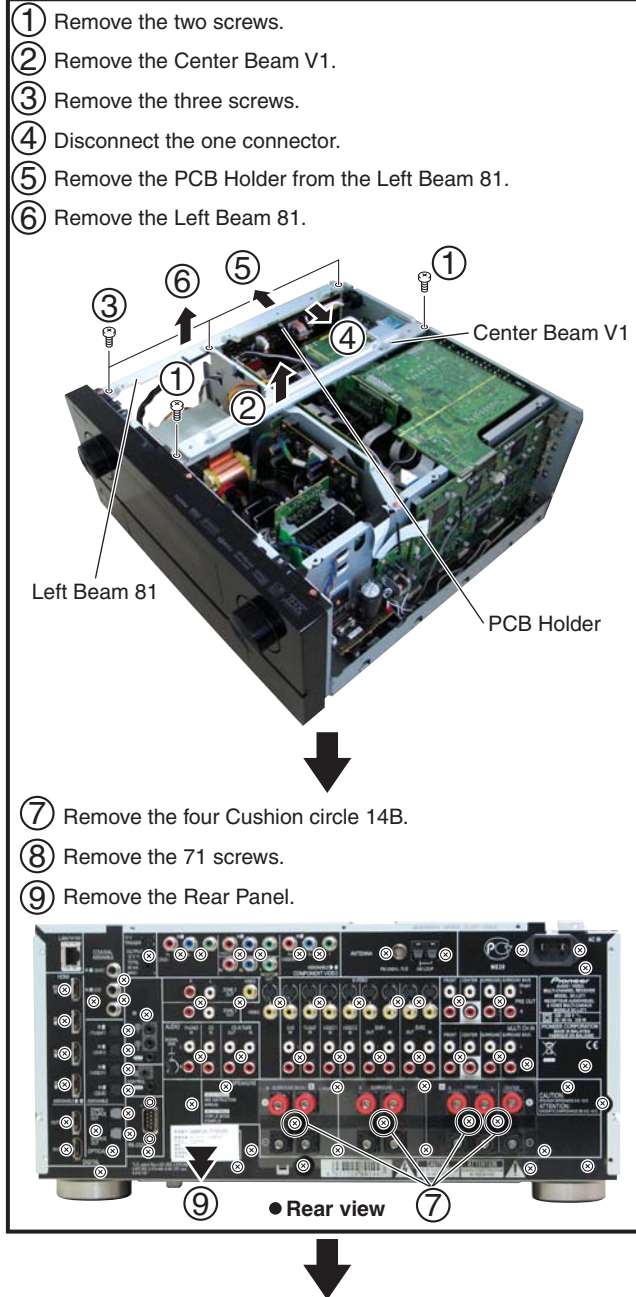
Note 3: Before starting the diagnosis, wait for three minutes until the electricity of the unit is discharged.

1. Disassembly

1 Bonnet



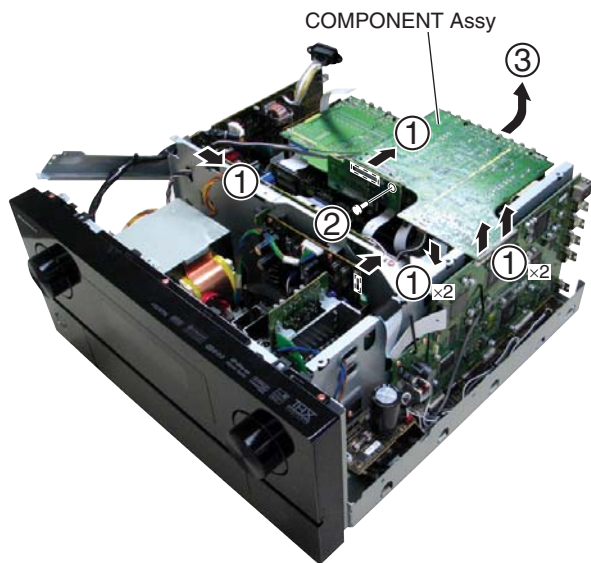
2 Rear Panel



3 PCB Assys and ICE Cover

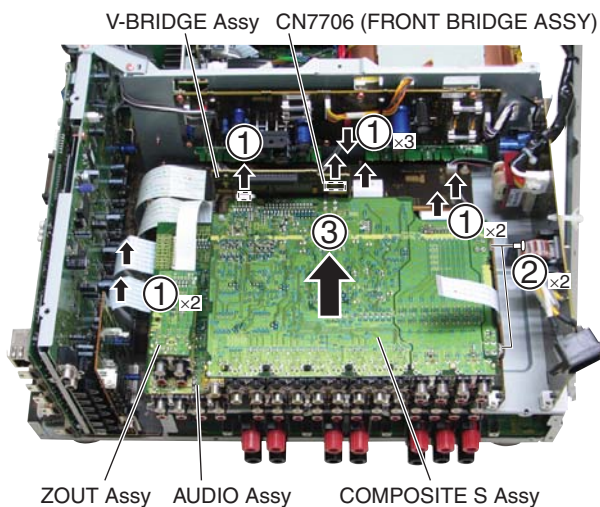
• COMPONENT Assy

- ① Disconnect the one flexible cable and five connectors.
- ② Remove the one Push Rivet.
- ③ Remove the COMPONENT Assy.



• AUDIO Assy, COMPOSITE S Assy, V-BRIDGE Assy and ZOUT Assy

- ① Disconnect the six flexible cables and two connector.
- ② Remove the two Push Rivets.
- ③ Remove the AUDIO Assy, COMPOSITE S Assy, V-BRIDGE Assy and ZOUT Assy.



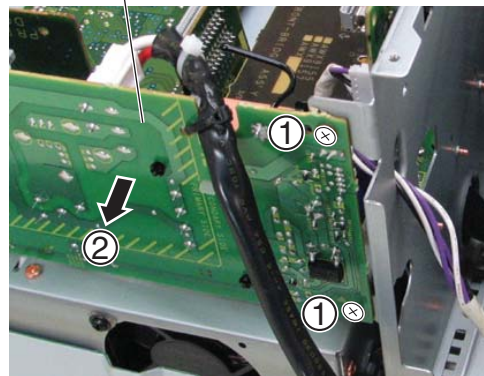
• Rear view



• PRIMARY Assy

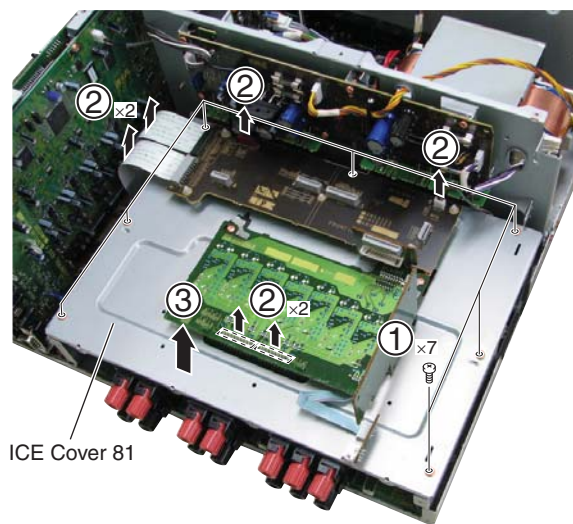
- ① Remove the two screws.
- ② Remove the PRIMARY Assy.

PRIMARY Assy



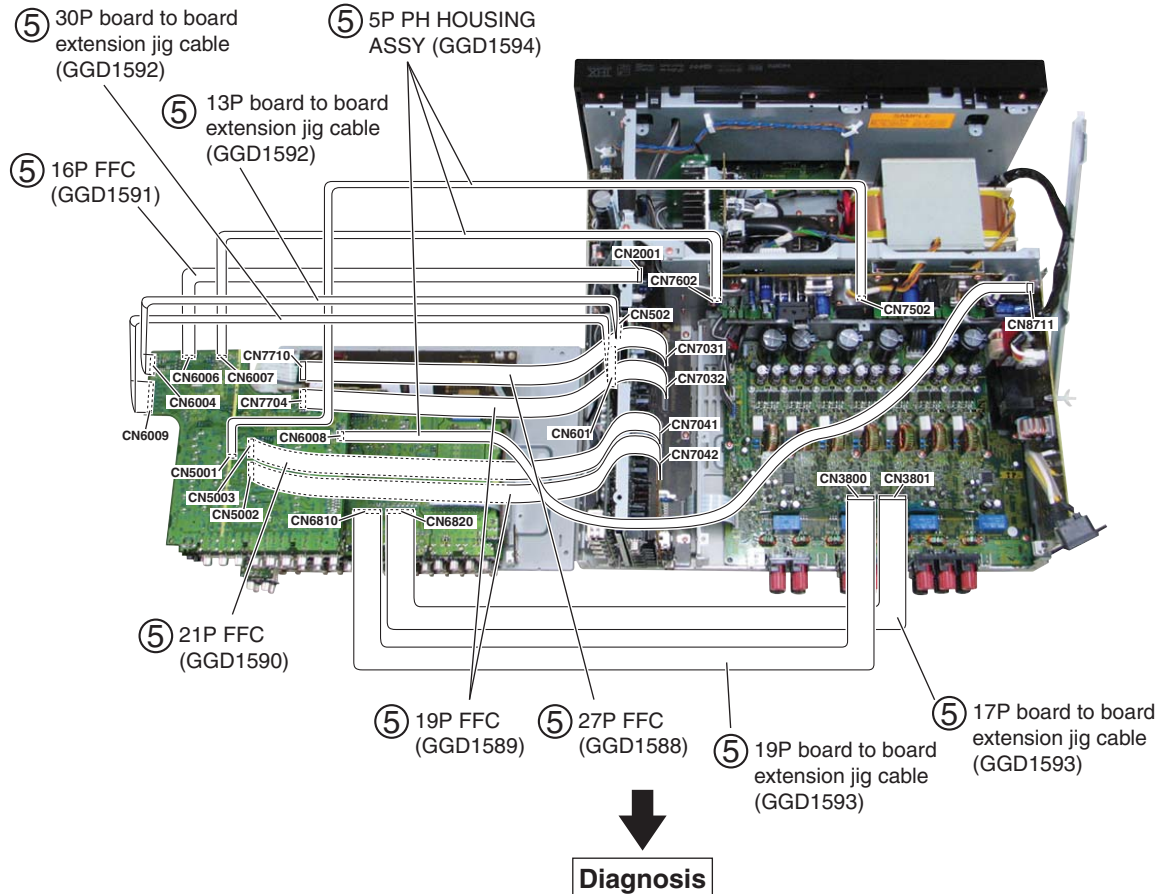
• ICE Cover 81 Section

- ① Remove the seven screws.
- ② Disconnect the two flexible cables and four connectors.
- ③ Remove the ICE Cover 81.

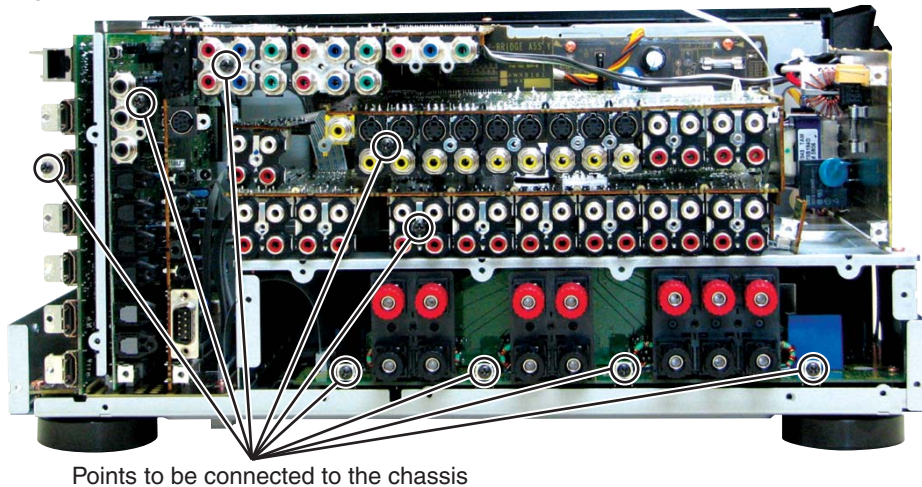


4 Diagnosis

- ① Reassembling the PRIMARY Assy.
- ② Reassembling the AUDIO Assy, COMPOSITE S Assy, V-BRIDGE Assy and ZOUT Assy on the Ice Cover 81.
- ③ Reassembling the COMPONENT Assy on the V-BRIDGE Assy.
- ④ Connect the twelve extension jig cables.
- ⑤ Arrange the unit as shown in the photo below.



Note : As mentioned below, detach the rear panel, re-fasten the screws at the corresponding points, and connect the chassis to the ground.



8. EACH SETTING AND ADJUSTMENT

8.1 HOW TO UPDATE FIRMWARE

[1] MAIN, DSP, HDMI, EVENT and DISP Microcomputer

[Purpose]

Refer to this section when updating the firmware of each microcomputer is required by the service information, etc.

[Necessary Tools]

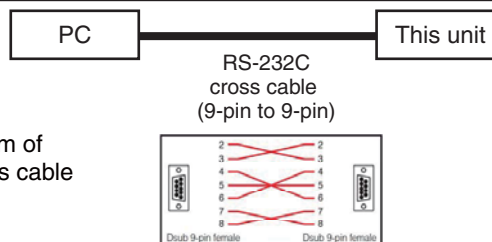
- PC with a serial port
- RS-232C cable (9-pin to 9-pin, cross)
- Firmware ("mot" extension) (**except DISP u-com**)
("sz0" extension) (**for DISP u-com**)
- Program for updating (ufu.exe: ver. 1.08) (**except DISP u-com**)
(ufu.exe: ver. 1.10) (**for DISP u-com**)

[Connections]

Connect as indicated in the figure right:

(MAIN microcomputer)
(EVENT microcomputer)
(HDMI microcomputer)
(DSP microcomputer)
(DISP microcomputer)

Pin-out diagram of
RS-232C cross cable



[Note]

Do NOT disconnect the AC power cords of this unit nor the PC.

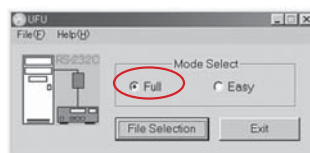
1) HDMI, MAIN, DSP and EVENT microcomputer

[Procedures]

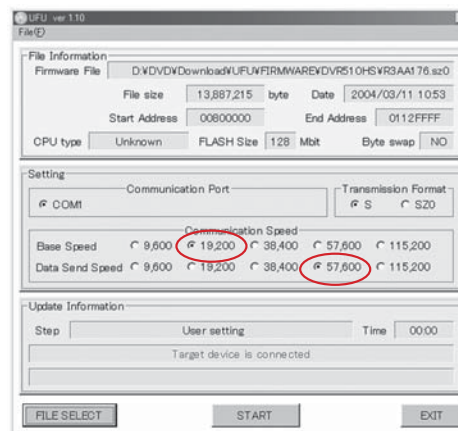
1. Turn off the power to this unit by setting the main volume level to "---dB" and Multi-Zone to "OFF".
2. Connect the 232C cross cable and the PC, as indicated in "Connections".
3. Simultaneously press and hold the ENTER and MULTI-ZONE ON/OFF keys for about 5 seconds.
4. Turn the power ON at CONFIDENTIAL PANEL mode.
5. (MAIN microcomputer)
Press ↓ key and select "MAIN DL [START]" display.
Press ENTER key and set to "MAIN DL [GO ON]".
(EVENT microcomputer)
Press ↓ key and select "EVNT DL [START]" display.
Press ENTER key and set to "EVNT DL [GO ON]".
(DSP microcomputer)
Press ↓ key and select "DSPM DL [START]" display.
Press ENTER key and set to "DSPM DL [GO ON]".
(HDMI microcomputer)
Press ↓ key and select "HDMI DL [START]" display.
Press ENTER key and set to "HDMI DL [GO ON]".
6. Double-click on "ufu.exe: ver.1.08".
7. Check that "Full" is selected in MODE SELECT.
8. Select the firm ware file with "mot" extension.
9. Select the communication speed.
 - Basic speed: 19200
 - Data transfer speed: 57600
10. Click on "START" button.
11. "Completed" is displayed in the "ufu.exe" window.
12. Please retry it from 2 when it doesn't so well.
13. Turn off the unit and end the ufu.exe.

Disconnect the AC power cord of the unit.
and the RS-232C cable.

14. Clear the memories.
 - 1) Connect the AC power cord of the unit
 - 2) Press "SETUP" button and "POWER" button.
 - 3) Then the receiver is turned on and displays "RESET[NO]".
 - 4) Push "→" key and displays "RESET [RESET]"
 - 5) Then push "ENTER" key and displays "RESET? [OK]".
 - 6) Push "ENTER" key and often a while "OK" is displayed.
15. Check the version.
Following the procedures described in
"Version indication" in "6.1 TEST MODE",
check that the version has been changed to a new one.



Check that "Full" is selected in MODE SELECT.



Select the communication speed.

- Basic speed: 19200
- Data transfer speed: 57600

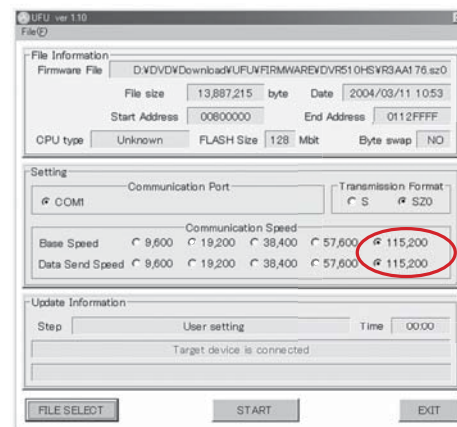
2) DISP microcomputer

[Procedures]

1. Turn off the power to this unit by setting the main volume level to "---dB" and Multi-Zone to "OFF".
2. Connect the 232C cross cable and the PC, as indicated in "Connections".
3. Simultaneously press and hold the ENTER and MULTI-ZONE ON/OFF keys for about 5 seconds.
4. Turn the power ON at CONFIDENTIAL PANEL mode.
5. (DISP microcomputer)
Press ↓ key and select "DISP DL [START]" display.
Press ENTER key and set to "DISP DL [GO ON]".
6. Double-click on "ufu.exe: ver.1.10".
7. Check that "Full" is selected in MODE SELECT.
8. Select the firm ware file with "sz0" extension.
9. Select the communication speed.
 - Basic speed: 115200
 - Data transfer speed: 115200
10. Click on "START" button.
11. "Completed" is displayed in the "ufu.exe" window.
12. Please retry it from 2 when it doesn't so well.
13. Turn off the unit and end the ufu.exe.
Disconnect the AC power cord of the unit.
and the RS-232C cable.
14. Clear the memories.
 - 1) Connect the AC power cord of the unit
 - 2) Press "SETUP" button and "POWER" button.
 - 3) Then the receiver is turned on and displays "RESET [NO]".
 - 4) Push "→" key and displays "RESET [RESET]".
 - 5) Then push "ENTER" key and displays "RESET? [OK]".
 - 6) Push "ENTER" key and often a while "OK" is displayed.
15. Check the version.
Following the procedures described in "Version indication" in "6.1 TEST MODE",
check that the version has been changed to a new one.



Check that "Full" is selected in MODE SELECT.



Select the communication speed.

- Basic speed: 115200
- Data transfer speed: 115200

[2] DSP Flash Rom Update by USB Memory

[Preparations]

1. Copy the DSP Firmware for update to the USB MEMORY in advance.
 - * One file for DSP1 and DSP2
 - * Unable to update by the program except for 08 Mid receiver.
2. Connect the MONITOR OUT of this unit to DISPLAY.
3. Turn off the power to this unit by setting the main volume level to "---dB" and Multi-Zone to "OFF".
4. Connect the USB MEMORY to the iPod DIRECT USB terminal of this unit.

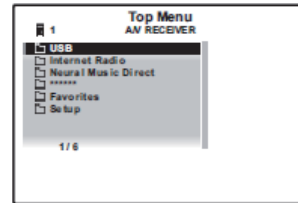
[Procedure]

1. Simultaneously press and hold POWER and RETURN keys for about 5 seconds.
2. The DSP firmware version is displayed automatically.
Confirm the Version before the update.
"f [*.***] s [*.***]" is displayed on the FL display. **(A)**
f: DSP1 firmware
s: DSP2 firmware
3. Select the "USB" on the monitor TV. **(B)**
4. Select the file for Firmware update. **(C)**
5. The updating program starts and the HDMI indicator becomes flashing. **(D)**
6. After about 2 minutes, the HDMI indicator stops flashing and the update is finished.
Confirm "DSPFL DL [OK]" is displayed on the FL display. **(E)**
7. Turn off the unit and disconnect the USB MEMORY.

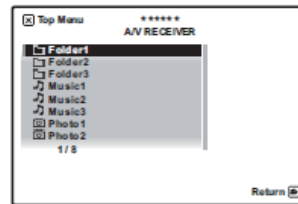
(A)



(B)



(C)



(D)



(E)



[Confirmation]

1. Simultaneously press and hold POWER and RETURN keys for about 5 seconds.
2. The DSP firmware version is displayed automatically.
Confirm the Version after the update. **(F)**

(F)



[3] Network Firmware Update Procedure

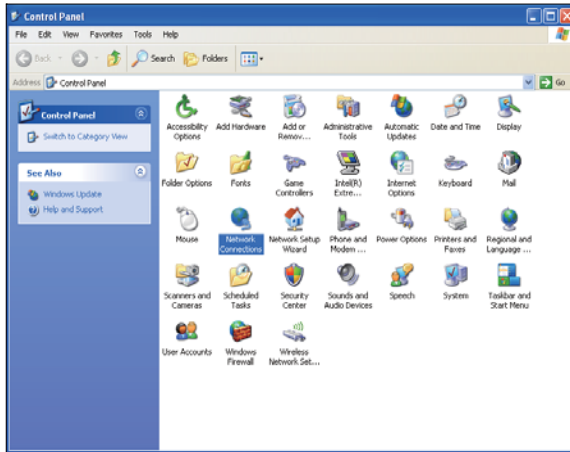
Note: Please prepare the firmware file in your PC before starting this procedure.

[Procedure]

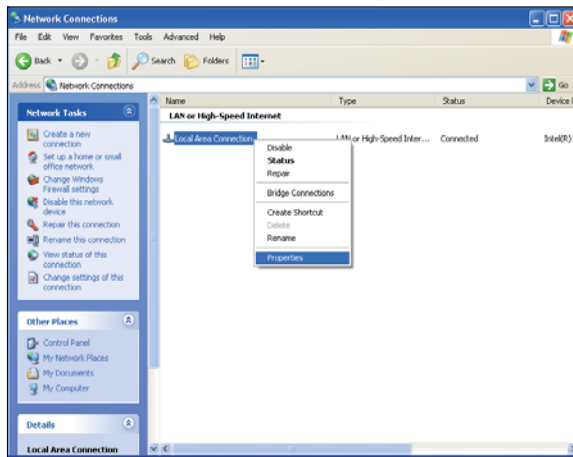
1. Connect the LAN terminal on the AV receiver to the LAN terminal on PC with a LAN cable (cross or straight).
2. Set the Static IP Address of the PC.
 - *When using the DHCP router, go to Step 3.
 - It is not necessary to execute this Step 2 in that case.

Open the Control Panel. --->

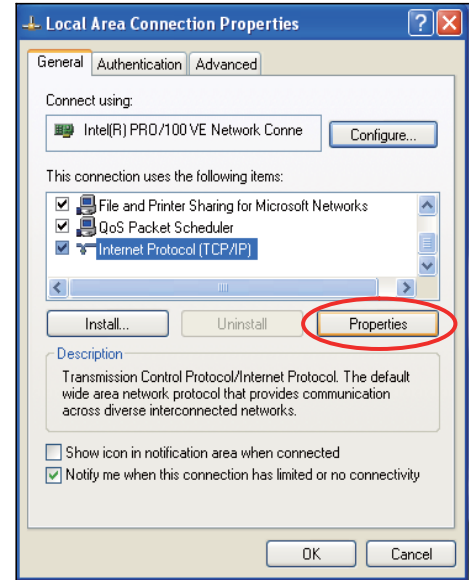
Open the Network Connections (double click).



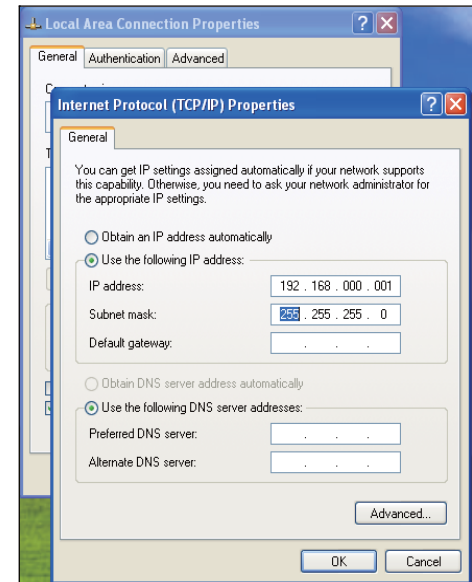
Local Area Connection (right click) ---> Properties



Local Area Connections Properties --->
Internet Protocol (TCP/IP) ---> Properties



Internet Protocol (TCP/IP) Properties



Set the following settings.

Use the following IP address:

IP address: 192.168.000.001

Subnet mask: 255.255.255.0

3. Set the Static IP Address of the AV receiver.

Note: Please confirm the Network IP settings of the customer's unit before changing the IP Address.
Home Media Gallery ---> Setup ---> NetworkSetup ---> NetworkFound ---> Static IP Address
If using the Static IP Address, please record it.

Home Media Gallery ---> Setup ---> NetworkSetup ---> NetworkFound ---> Static IP Address Change

Set the following settings.

IP address: 192.168.000.002

Subnet mask: 255.255.255.0

Gateway IP: 192.168.000.001

Proxy Server: No

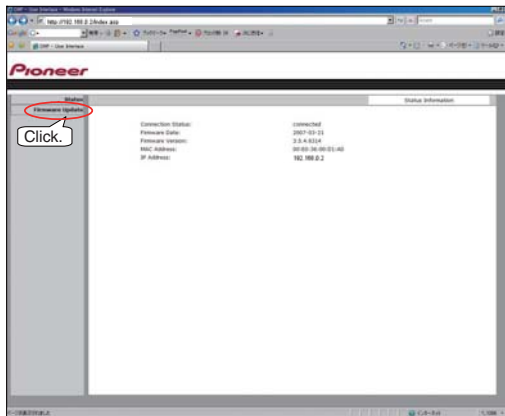
4. Open the Internet Explorer on the PC.

Enter the following address.

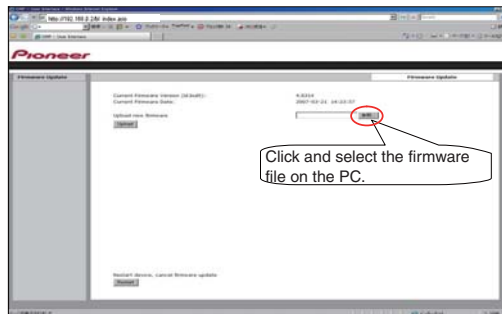
http:// 192.168.000.002

The following page will be appeared.

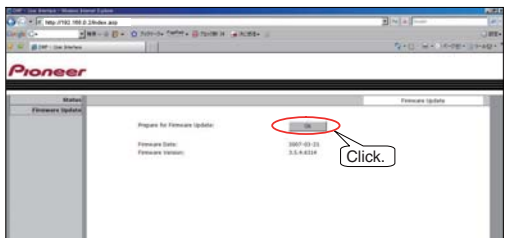
Click the Firmware Update.



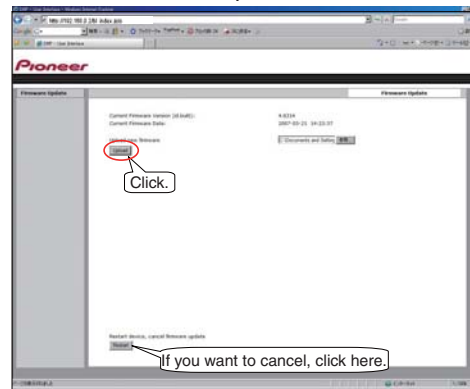
Click the browse button and select the firmware file in the PC.



Click the Ok button.

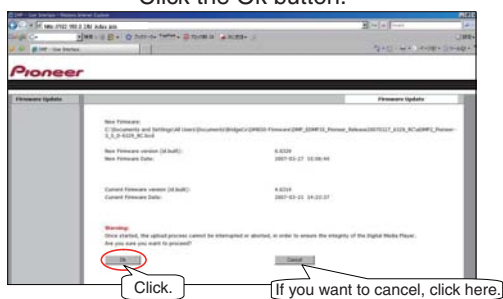


Click the Upload button.

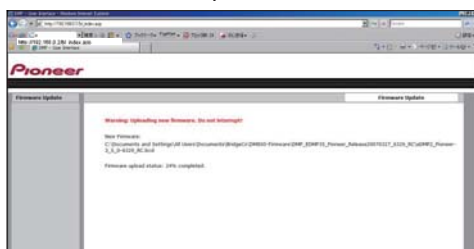




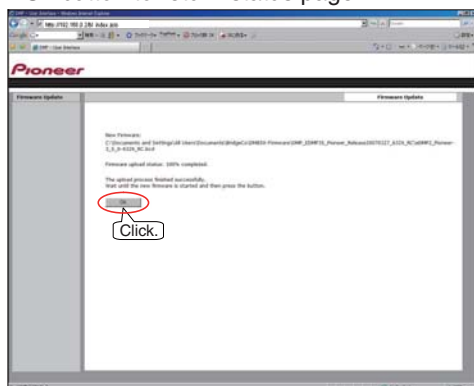
Click the Ok button.



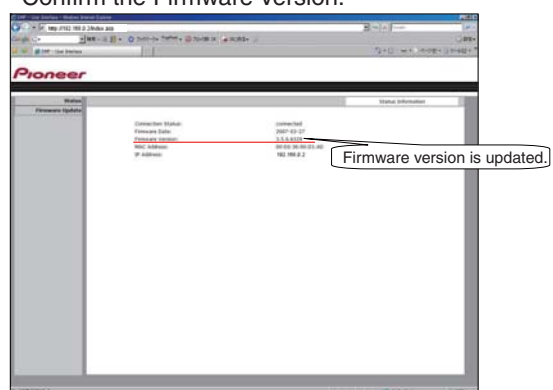
The firmware update will be started.



After the updating is completed, click the Ok button to return status page.



Confirm the Firmware Version.

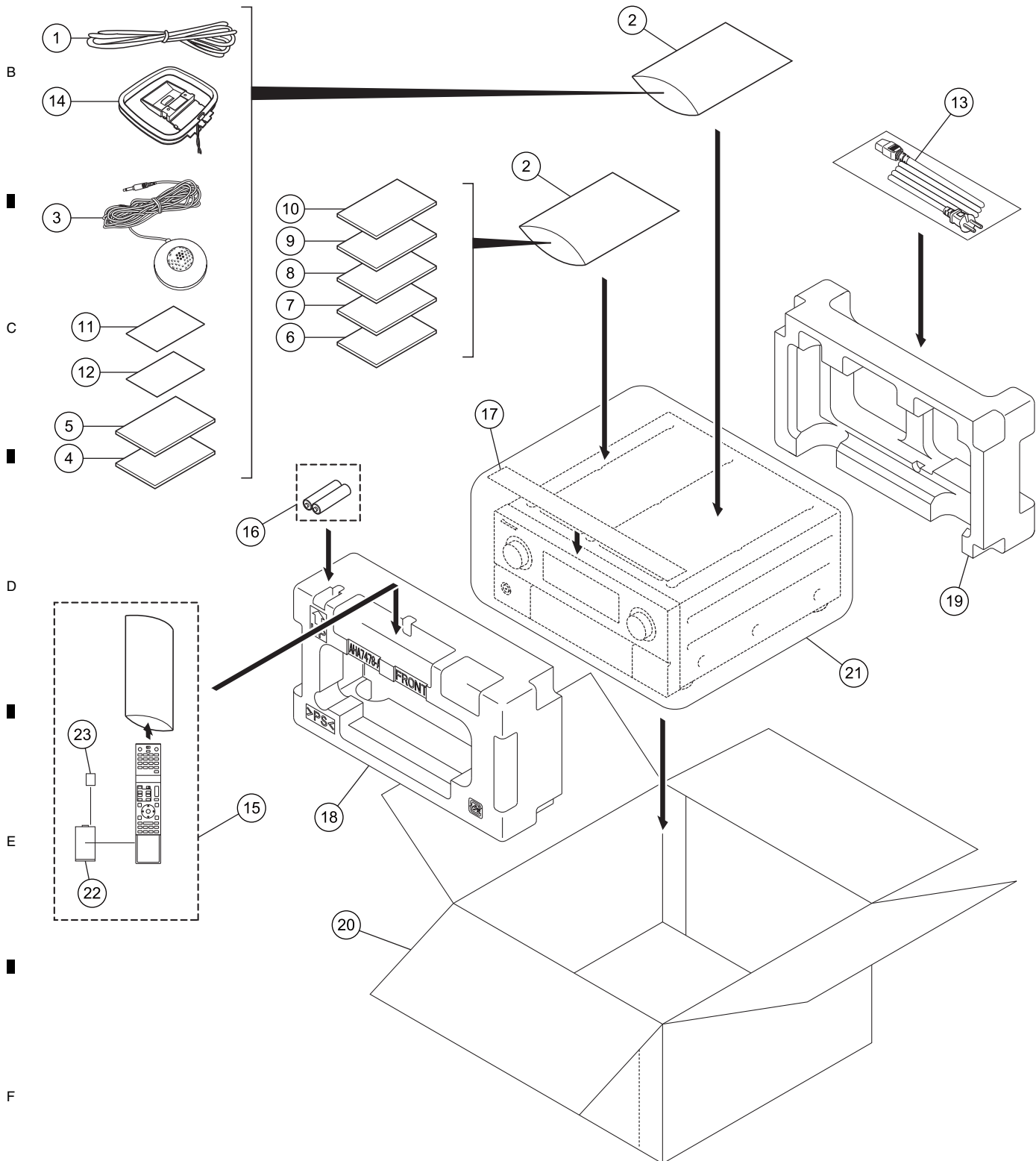


Note: Please restore the Network IP settings of the customer's unit after the update is completed.

9. EXPLODED VIEWS AND PARTS LIST

- NOTES:
- Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.
 - The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
 - Screws adjacent to ▼ mark on product are used for disassembly.
 - For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

9.1 PACKING SECTION



PACKING SECTION SECTION PARTS LIST

Mark No.	Description	Part No.	
1	FM Wire Antenna	ADH7030	
NSP 2	Polyethylene Bag	AHG7117	A
3	Setup Microphone (for Auto MCACC setup)	APM7008	
4	Operating Instructions (English)	ARB7393	
5	Operating Instructions (French)	ARC7799	
6	Operating Instructions (German)	ARC7800	
7	Operating Instructions (Italian)	ARC7801	
8	Operating Instructions (Spanish)	ARC7802	
9	Operating Instructions (Dutch)	ARC7803	
10	Operating Instructions (Russian)	ARC7804	B
11	Caution Sheet SP,E	ARM7056	
NSP 12	Warranty Card EU	ARY7128	
⚠ 13	AC Power Cord	ADG7062	
14	AM Loop Antenna	ATB7013	
15	Remote Control Unit	AXD7521	
NSP 16	Dry Cell Battery AA/LR6	XEX3004	
17	Protection Sheet LX	AEH7030	
18	Front Pad 81	AHA7478	
19	Rear Pad 81	AHA7479	C
20	Packing Case (SC-LX81)	AHD8603	
20	Packing Case (SC-LX71)	AHD8604	
21	Packing Sheet	RHC1023	
22	Battery Cover	AZN8031	
23	Label(WEEE)	ARW7322	

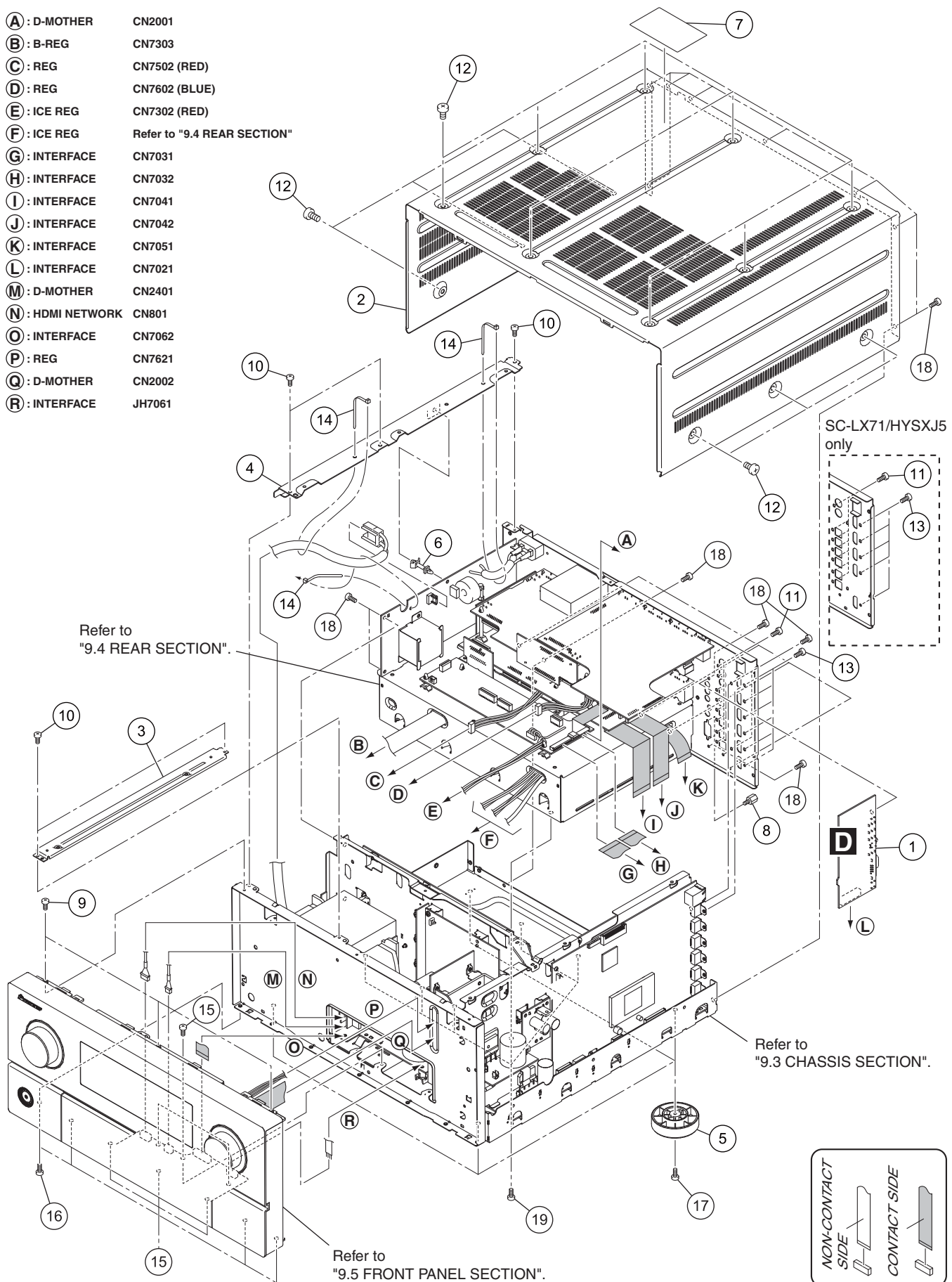
D

E

F

9.2 EXTERIOR SECTION

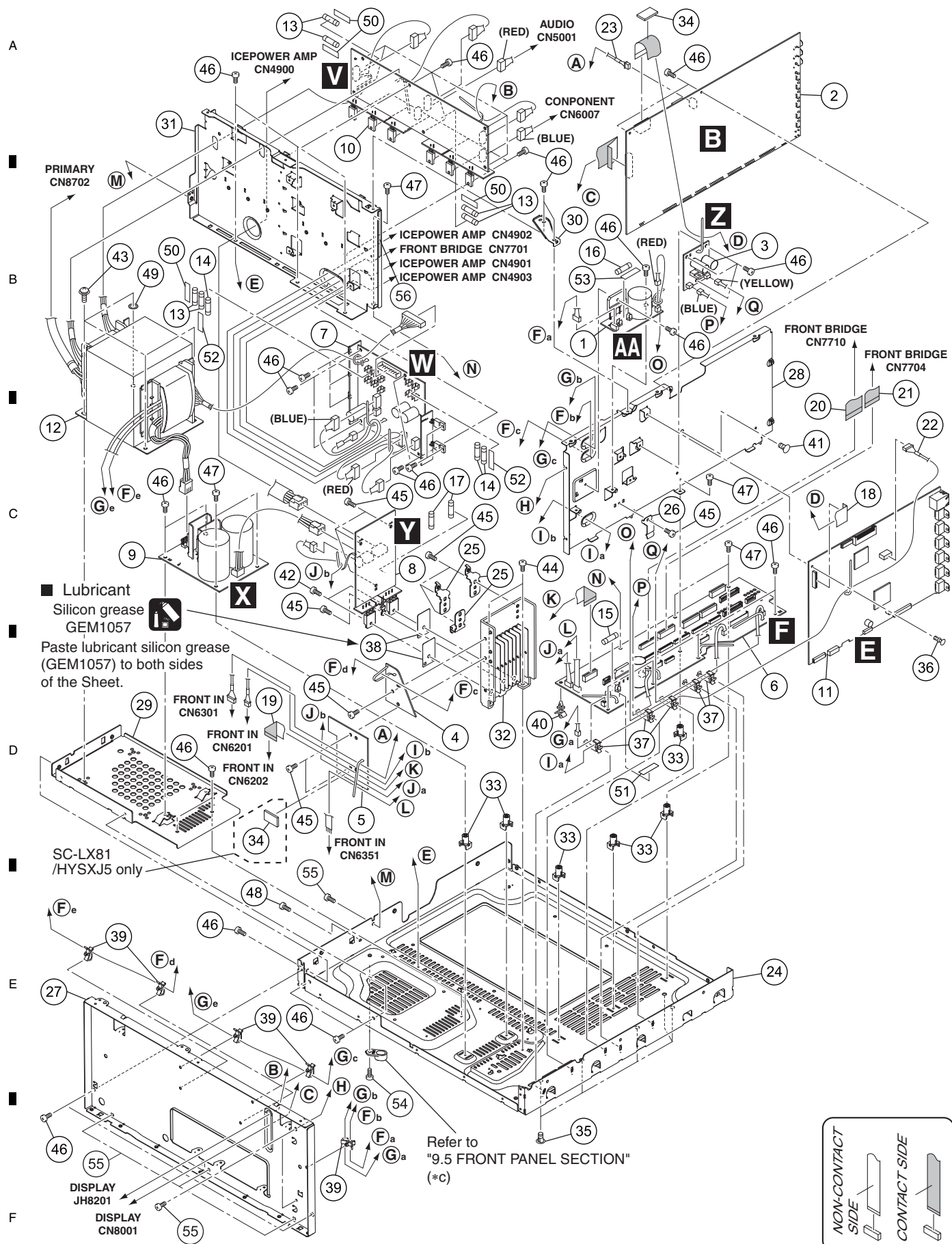
(A) : D-MOTHER	CN2001
(B) : B-REG	CN7303
(C) : REG	CN7502 (RED)
(D) : REG	CN7602 (BLUE)
(E) : ICE REG	CN7302 (RED)
(F) : ICE REG	Refer to "9.4 REAR SECTION"
(G) : INTERFACE	CN7031
(H) : INTERFACE	CN7032
(I) : INTERFACE	CN7041
(J) : INTERFACE	CN7042
(K) : INTERFACE	CN7051
(L) : INTERFACE	CN7021
(M) : D-MOTHER	CN2401
(N) : HDMI NETWORK	CN801
(O) : INTERFACE	CN7062
(P) : REG	CN7621
(Q) : D-MOTHER	CN2002
(R) : INTERFACE	JH7061



EXTERIOR SECTION SECTION PARTS LIST

Mark	No.	Description	Part No.	
	1	232C & CONTROL ASSY	AWX9209	
	2	Bonnet 81B	AZN8036	A
	3	Center Beam V1	ANG7482	
	4	Left Beam 81	ANG7624	
	5	Insulator Assembly	DXA1904	
	6	PCB Holder	PNW2562	
	7	Lisence Label V5S	ARW7372	■
	8	Screw 2.85 x 7	ABA7078	
	9	Screw	BBT30P080FCC	
	10	Screw	BBZ30P080FCC	
	11	Screw	BBZ30P080FTB	B
	12	Screw	BCZ40P060FTB	
	13	Screw	BMZ30P040FTB	
NSP	14	Binder (BK-1)	ZCA-BK1	
	15	Screw	BBZ30P060FCC	
	16	Screw	ABA1193	■
	17	Screw	ABZ30P080FTC	
	18	Screw	ABA1011	
	19	Screw	IBZ30P080FCC	
				C
				■
				D
				■
				E
				■
				F

9.3 CHASSIS SECTION



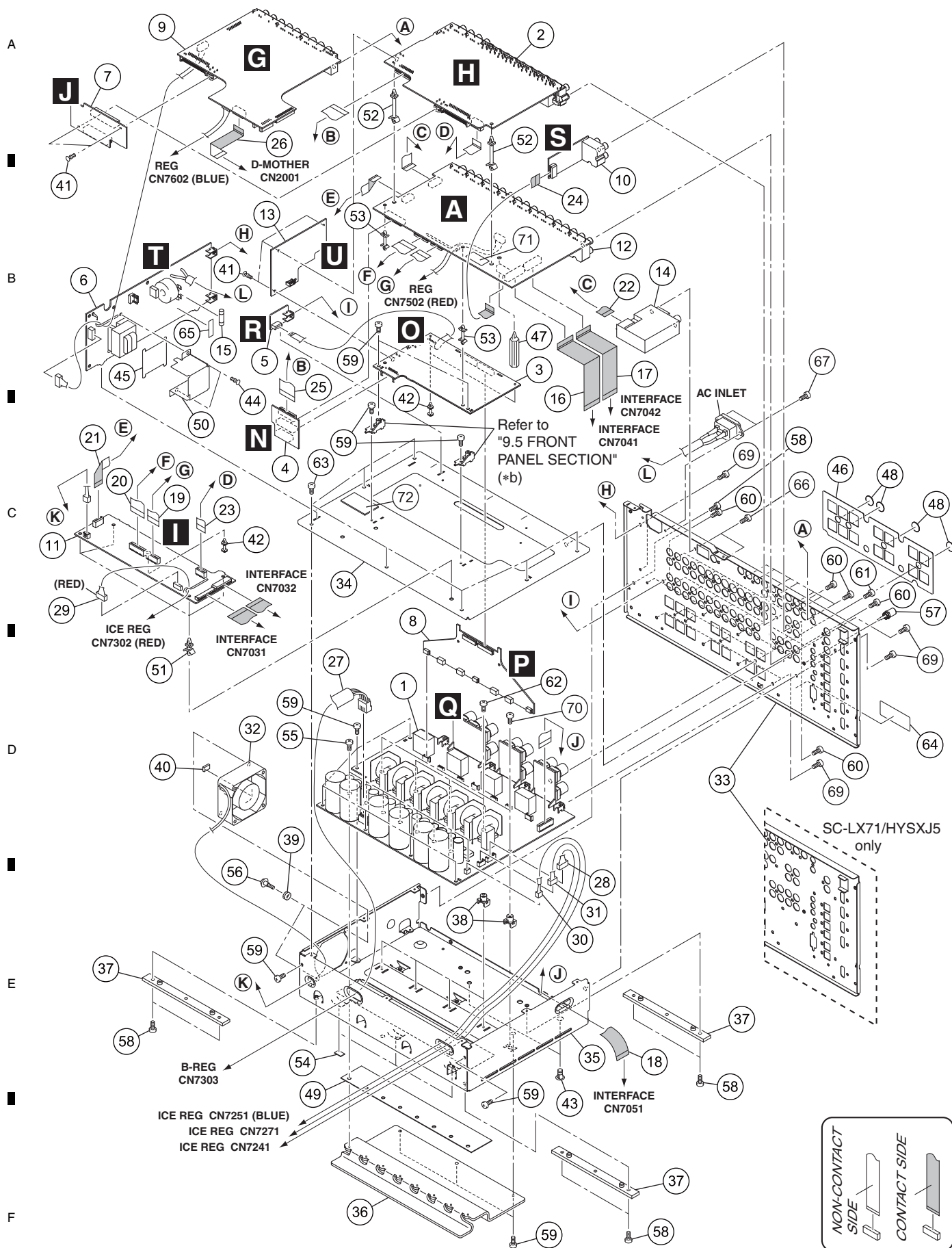
EXTERIOR SECTION SECTION PARTS LIST

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.	
⚠	1	HDMI RECT ASSY	AWX9156	29	Trans Flame 81		ANG7623	
	2	D-MOTHER ASSY	See Contrast table (2)					A
	3	DCDC ASSY	AWX9138	30	Support Plate 81		ANG7625	
	4	H GUARD2 ASSY	AWX9147	31	REG Assy Plate 81		ANG7627	
	5	H GUARD1 ASSY	AWX9174	32	REG Heatsink 81		ANH7204	
				33	PCB Mold		AMR2533	
	6	INTERFACE ASSY	AWX9148	34	FFC Cushion		AEB7404	
	7	ICE REG ASSY	AWX9149					
	8	B REG ASSY	AWX9150	35	PCB Holder		AEC7057	
	9	B DIODE ASSY	AWX9171	36	Push Rivet		AEC7071	
	10	REG ASSY	AWX9152	37	Reuse Clamp		AEC7621	
				38	Sheet		AEE7034	
	11	HDMI NETWORK ASSY	See Contrast table (2)	39	Side Clamp		DEC2007	B
⚠	12	Power Transformer (T1501)	ATS7423					
⚠	13	Fuse	REK1021	40	Locking Card Spacer		PNW2917	
		(FU13,FU14,FU21,FU22,FU31,FU32: 800mA)		NSP 41	PC Support		VEC1749	
⚠	14	Fuse	REK1022	42	Screw		ABA1052	
		(FU11,FU12,FU15: 1A)		43	Screw 4 x 12		ABA7109	
				44	Screw 3 x 10		ABA7134	
⚠	15	Fuse (FU51: 1.6A)	REK1024					
⚠	16	Fuse (FU41: 3.15A)	REK1027	45	Screw		BBZ30P060FTC	
⚠	17	Fuse (FU61,FU62: 10A)	REK1154	46	Screw		BBZ30P080FCC	
	18	22FFC/60V (J10)	ADD7655	47	Screw		BBZ30P180FCC	
	19	15FFC/60V (J13)	ADD7660	48	Screw		IBP30P090FCC	C
				49	Washer		WH40FNI	
	20	27P FFC/60V (J15)	ADD7662					
	21	19P FFC/60V (J16)	ADD7663	NSP 50	Fuse Card		AAX2367	
	22	5P Shielded Cable (J19)	ADX7621	NSP 51	Fuse Card		AAX2377	
	23	Housing Assy (Y21)	ADX7623	NSP 52	Fuse Card		AAX7293	
NSP 24	Under Base 81		ANA7210	NSP 53	Fuse Card		AAX7493	
				54	Screw		ABZ30P080FTC	
	25	PCB Angle 45	ANG7406					
NSP 26	Transistor Holder		ANG7543	55	Screw		ABA1011	
NSP 27	Panel Stay 81		ANG7642	56	ACETATE TAPE 10X60		AEH7029	D
	28	DSP Shieled 81	ANG7622					

(2) CONTRAST TABLE
 SC-LX81/HYSXJ5 and SC-LX71/HYSXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	Mark	No.
	2	D-MOTHER ASSY	AWX9196	AWX9202
	11	HDMI NETWORK ASSY	AWX9234	AWX9235

9.4 REAR PANEL SECTION



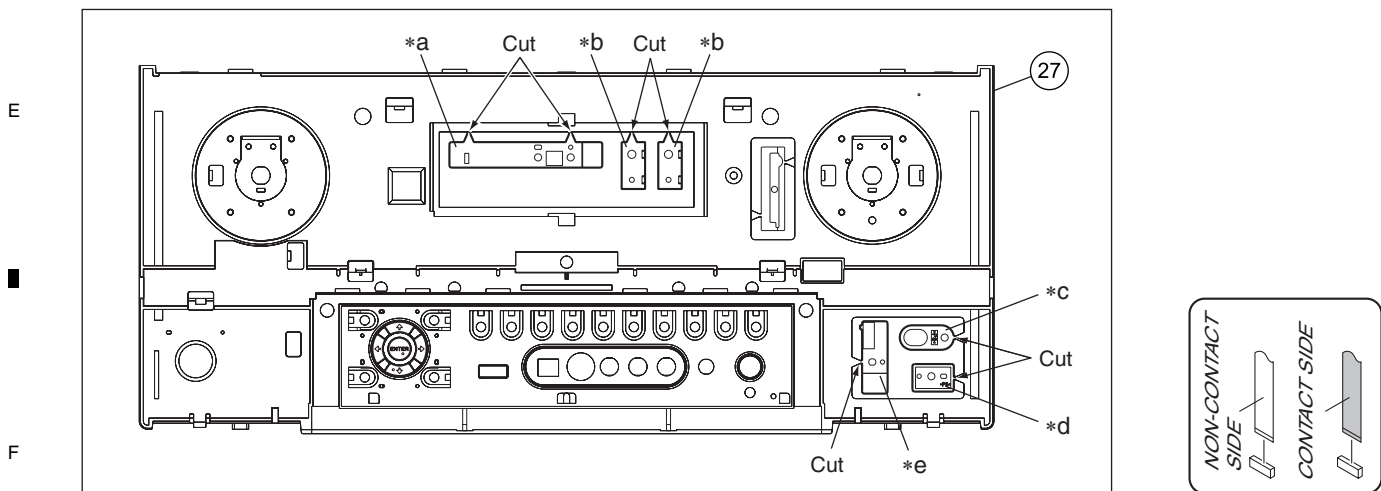
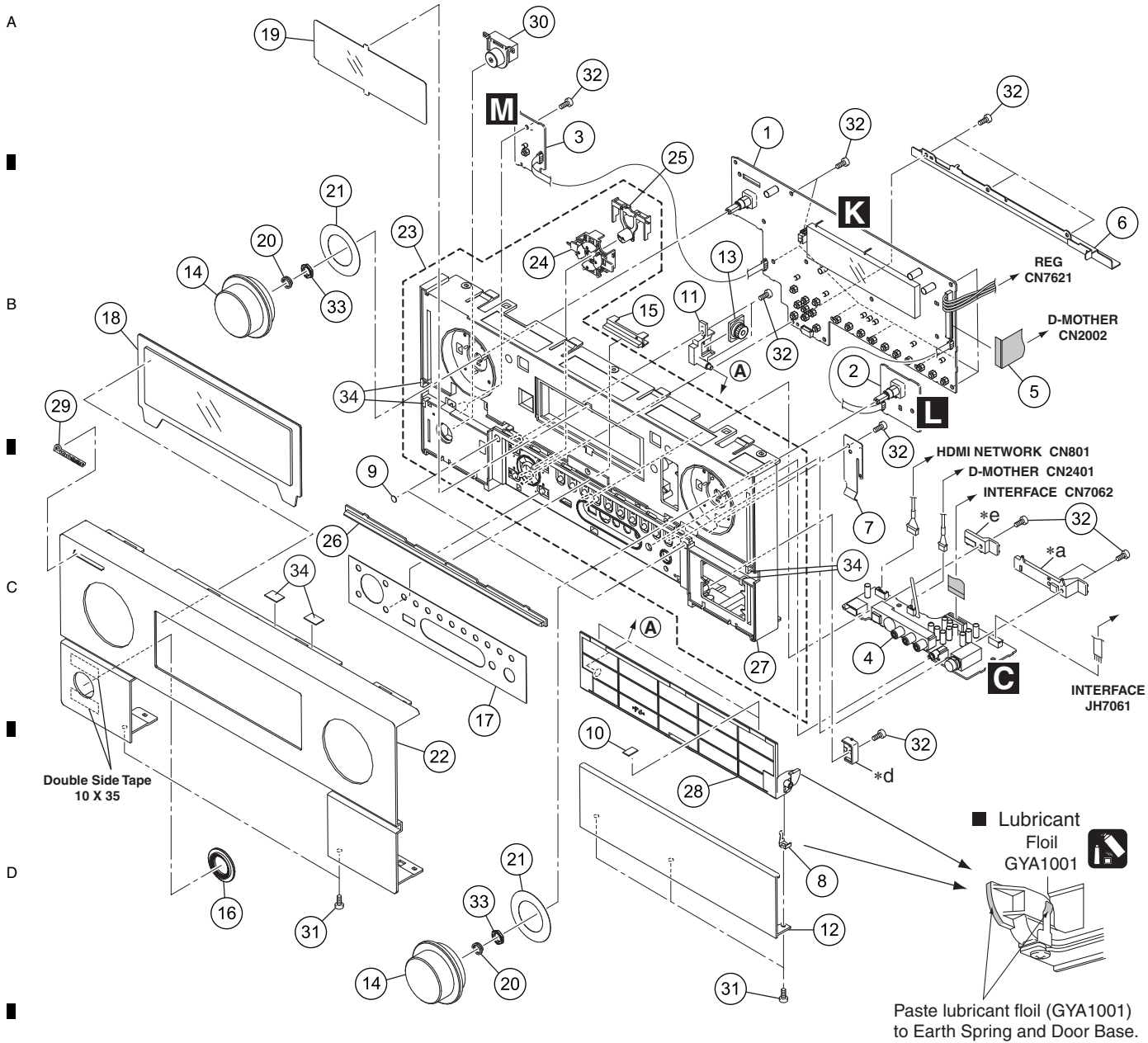
EXTERIOR SECTION SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	ICEPOWER AMP Assy	AWH7017	38	PCB Mold	AMR7536
2	COMPOSITE S ASSY	AWX9144	39	Damper Bushing	AEB7396
3	ICE BUFFER ASSY	AWX9145	40	Cushion 5 x 8	AEB7397
4	PRE BRIDGE ASSY	AWX9146			
5	ICE SHIELD ASSY	AWX9173	41	Push Rivet	AEC7071
			42	PCB Spacer	AEC7080
⚠ 6	PRIMARY ASSY	AWX9166	43	Card Spacer	AEC7133
7	V-BRIDGE ASSY	AWX9161	44	Nylon Rivet	AEC7406
8	ICE INTERFACE ASSY	AWX9137	45	Primary Barrier	AEC7569
9	COMPONENT ASSY	See Contrast table (2)			
10	ZOUT ASSY	AWX9143	46	SP Sheet 81	AEC7599
			47	Card Spacer 18K	AEC7613
11	FRONT BRIDGE ASSY	AWX9155	48	Cushion Circle 14B	AED7081
12	AUDIO ASSY	AWX9206	49	Radiation Sheet A	AEE7064
13	PRIMARY GUARD ASSY	AWX9172	50	Shield Case	AMR7526
14	FM/AM TUNER UNIT	AXX7248			
⚠ 15	FUSE (FU1: 5A)	REK1029	NSP 51	PCB Holder	PNW2100
			NSP 52	Spacer 40	PNW2488
16	21P FFC/60V (J2)	ADD7645	NSP 53	PCB Holder	REC1220
17	19P FFC/60V (J3)	ADD7646	54	Cushion 11 x 7	AED7092
18	17P FFC/60V (J4)	ADD7647	55	Screw 3 x 10	ABA7134
19	13P FFC/60V (J5)	ADD7648			
20	17P FFC/60V (J6)	ADD7649	56	Screw	ABA7146
			57	Terminal Screw	AKE-031-0
21	9P FFC/60V (J7)	ADD7650	58	Screw	BBZ30P060FCC
22	11P FFC/60V (J8)	ADD7651	59	Screw	BBZ30P080FCC
23	9P FFC/60V (J9)	ADD7652	60	Screw	BBZ30P080FTB
24	11FFC/60V (J11)	ADD7658			
25	19FFC/60V (J12)	ADD7659	61	Screw	BBZ30P100FCC
			62	Screw	BBZ30P140FCC
26	16FFC/60V (J14)	ADD7661	63	Screw	AMZ30P060FTC
27	4P Housing Assy (Y20)	ADX7622	NSP 64	Label	VRW1629
28	6P Housing Assy (Y22)	ADX7655	NSP 65	Fuse Card	AAX7098
29	6P Housing Assy (Y23)	ADX7656			
30	2P Housing Assy (Y24)	ADX7657	66	Screw	ABA1207
			67	Screw	CBZ30P080FTB
31	4P Housing Assy (Y25)	ADX7677	68	•••••	
⚠ 32	DC Fan Motor	AXM7040	69	Screw	ABA1011
33	Rear Panel	See Contrast table (2)	70	Screw	IBZ30P150FCC
NSP 34	ICE COVER 81	ANF7047			
NSP 35	ICE BOX 81	ANF7052	71	ACETATE TAPE 10X35	AEH7032
			72	CUSHION T3 20X35	AEB7406
NSP 36	Heatsink 81	ANH7202			
37	Insulator ICE	AMR7523			

(2) CONTRAST TABLE
 SC-LX81/HYSXJ5 and SC-LX71/HYSXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	Mark	No.
	9	COMPONENT ASSY	AWX9141	AWX9211
	33	Rear Panel	ANC8526	ANC8533

9.5 FRONT PANEL SECTION



EXTERIOR SECTION SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	DISPLAY ASSY	See Contrast table (2)	19	Filter 81HY	AAK8459
2	VOL ASSY	AWX9159	20	Vol Ring 60	ABH7249
3	POWER SW ASSY	AWX9160			
4	FRONT IN ASSY	AWX9142	21	Knob Spacer 74	AEC7558
5	29FFC/60V (J18)	ADD7665	22	Front Panel	See Contrast table (2)
			23	P Base 81HY Assy	AZN8038
6	Panel Beam 81	ANG7620	NSP 24	+-Button 81	AAD7788
7	Door Spring	ABK7061	NSP 25	Enter Button 81	AAD7789
8	Earth Spring 81	ABK7067			
9	Cushion Circle 6B	AED7083	26	Center Lens V5SH	AAK8428
10	Cushion 11 x 7	AED7092	NSP 27	Panel Base 81HY	AMB7988
			28	Door Base 81	AMR7540
11	Door Shaft 60	AMR7531	29	Pioneer Badge	VAM1158
12	Door Panel 81HY	ANB7490	30	STANDBY BTN LXHY Assy	AAD7773
13	Damper Assy	AXA7156			
14	Vol.Knob B	AAA7052	31	Screw	BBZ30P080FTB
15	IB Lens V5SEL	AAK8430	32	Screw	BBZ30P100FNI
			33	Nut	NK90FTC
16	Power Ring LX	AAK8427	NSP 34	TAPE	PNM1249
17	Door Sheet 81HY	AAK8439			
18	Display Panel 81HY	AAK8442			

(2) CONTRAST TABLE

SC-LX81/HYSXJ5 and SC-LX71/HYSXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	Mark	No.
	1	DISPLAY ASSY	AWX9158	AWX9238
	22	Front Panel	ANB7483	ANB7487

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94



A AUDIO ASSY
(AWX9206)



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**F** CN7003

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B 1/4 D-MOTHER ASSY
(SC-LX81 : AWX9196)
(SC-LX71 : AWX9202)

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97

10.3 D-MOTHER ASSY (2/4)

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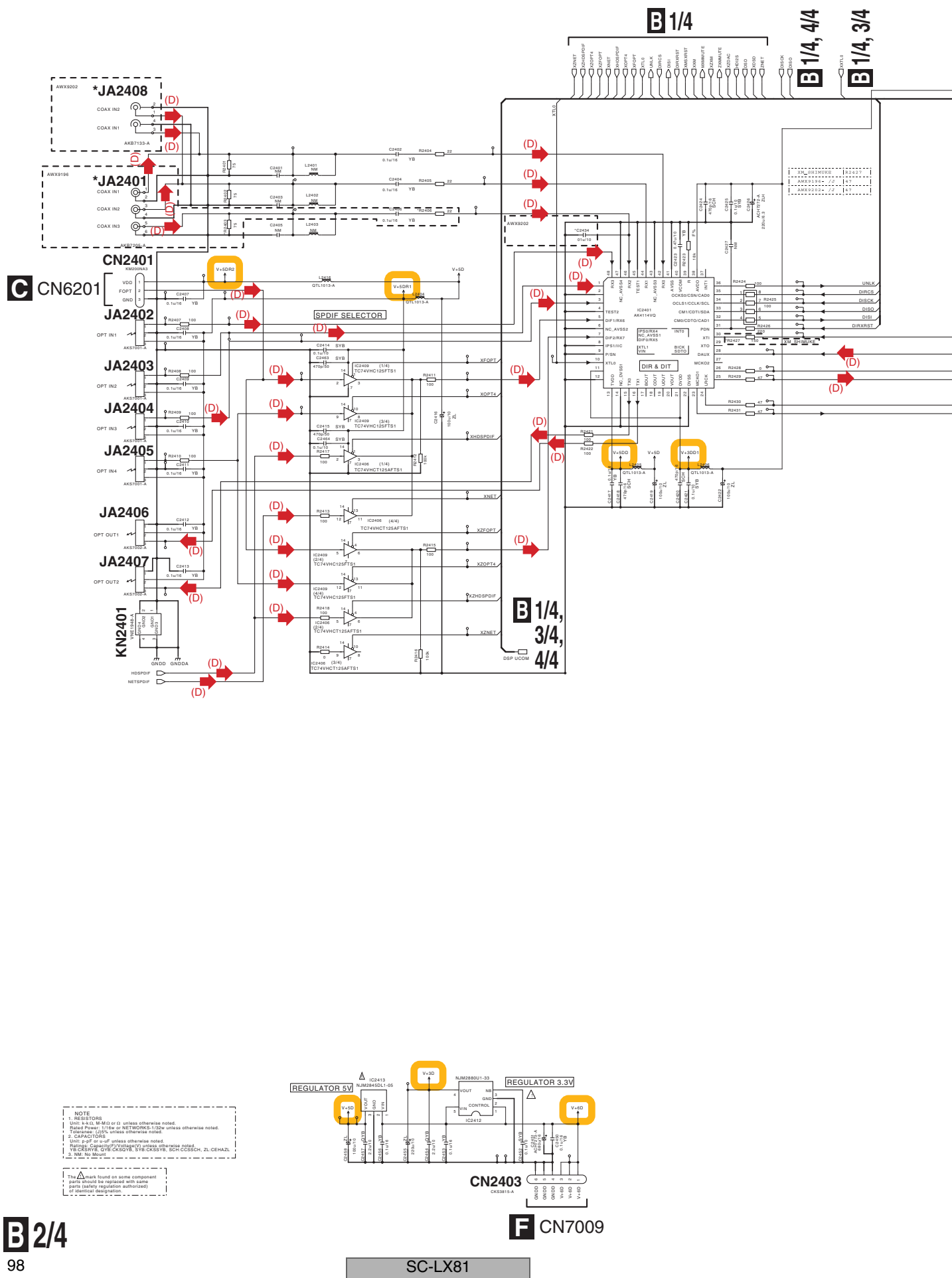
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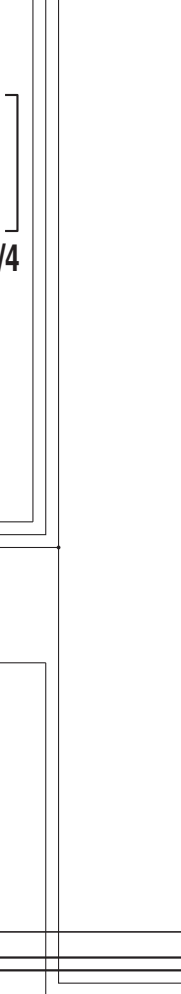
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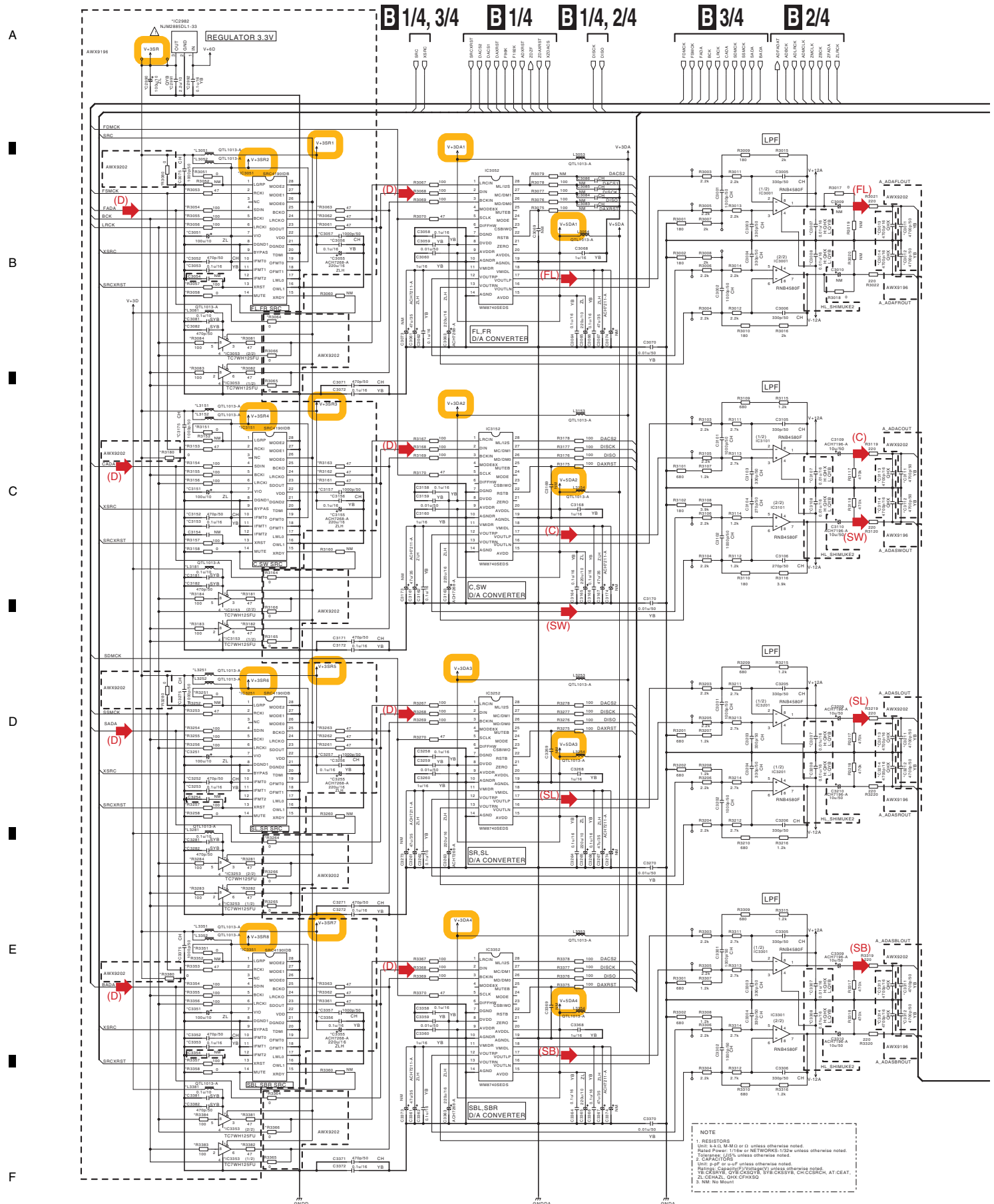
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101

10.5 D-MOTHER ASSY (4/4)



☐ DAC/ADC
☐ DSP UCOM

103

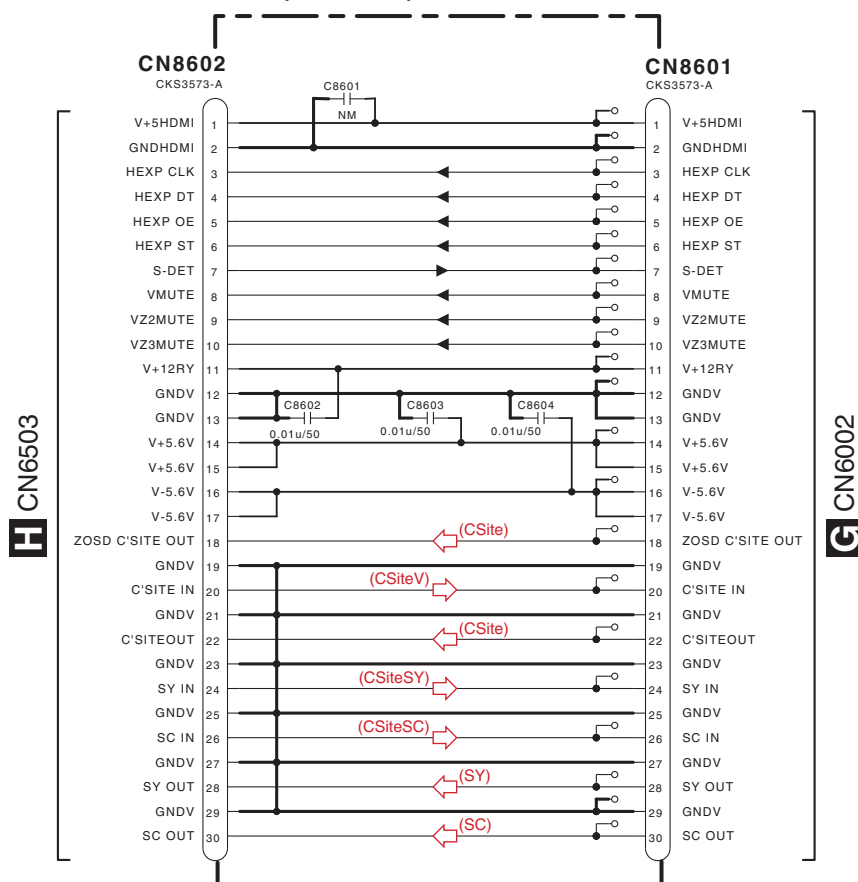
△

C



SC-LX81

**J V-BRIDGE ASSY
(AWX9161)**



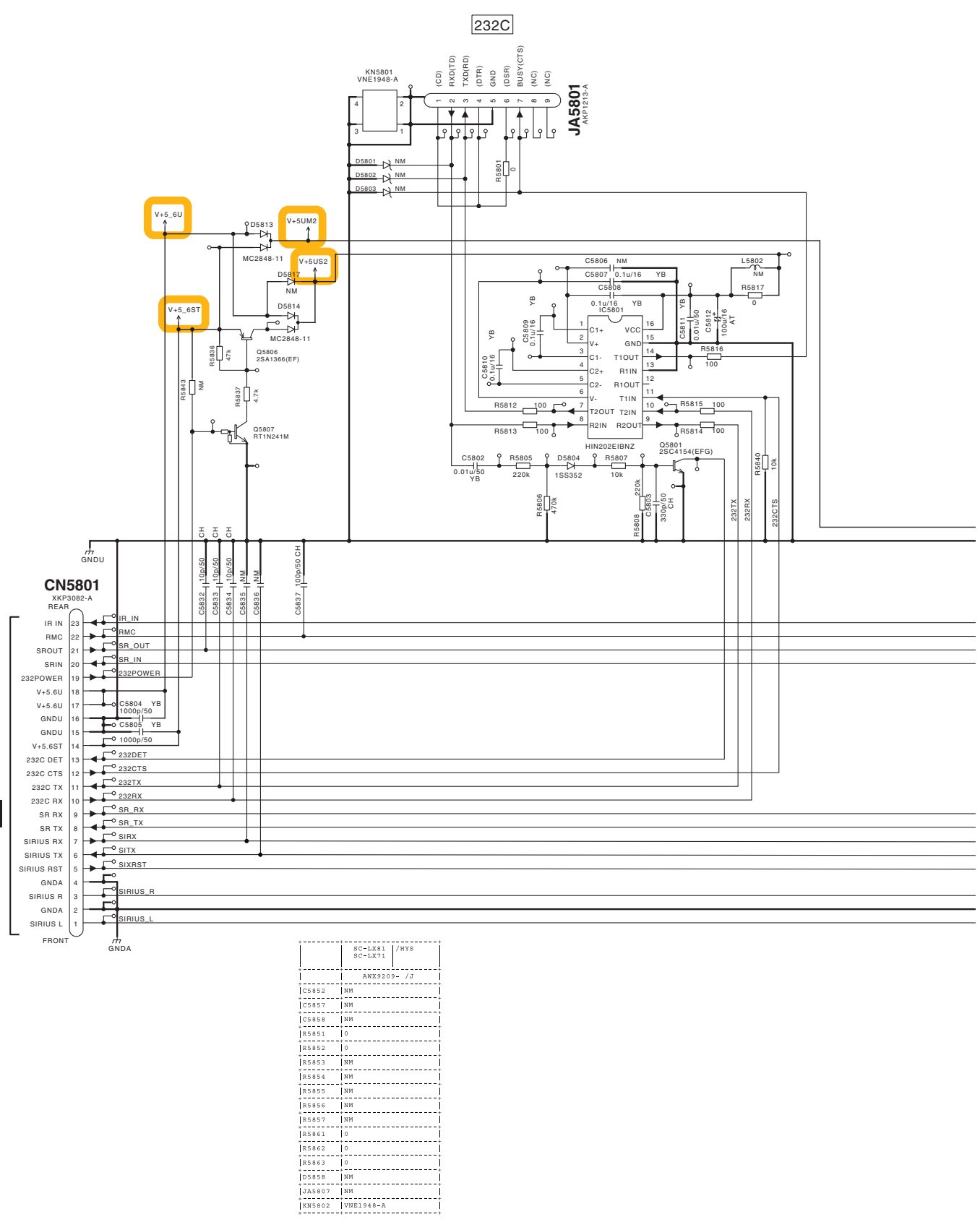
NOTE

1. CAPACITORS
Unit: p-pF or u-uF unless
otherwise noted.
Ratings: Capacity(F)/Voltage(V)
unless otherwise noted.
2. NM: No Mount

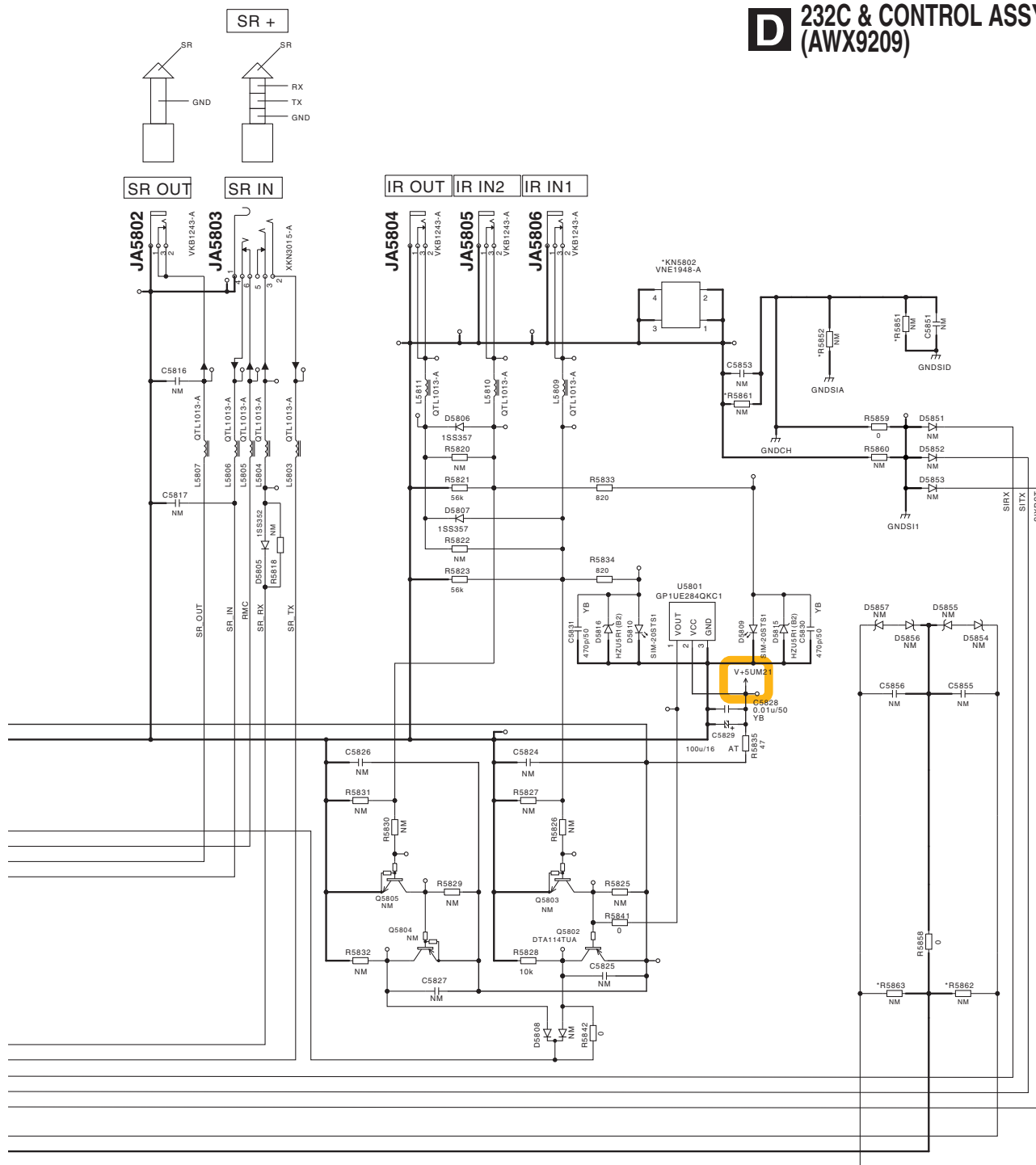
- (FSC)  : S-Video Signal Route (Front C)
- (FSY)  : S-Video Signal Route (Front Y)
- (FV)  : Video Signal Route (Video)
- (D)  : Audio Data Route
- (FVL)  : Audio Signal Route (Video L ch)
- (M)  : Audio Signal Route (Mic)
- (HPL)  : Audio Signal Route (Headphone L ch)

- (SC)  : S-Video Signal Route (C)
- (SY)  : S-Video Signal Route (Y)
- (CSiteSC)  : Video Signal Route (Composite C)
- (CSiteSY)  : Video Signal Route (Composite Y)
- (CSiteV)  : Video Signal Route (Composite Video)
- (CSite)  : Video Signal Route (Composite)

10.7 232C & CONTROL ASSY



D 232C & CONTROL ASSY (AWX9209)



NOTE

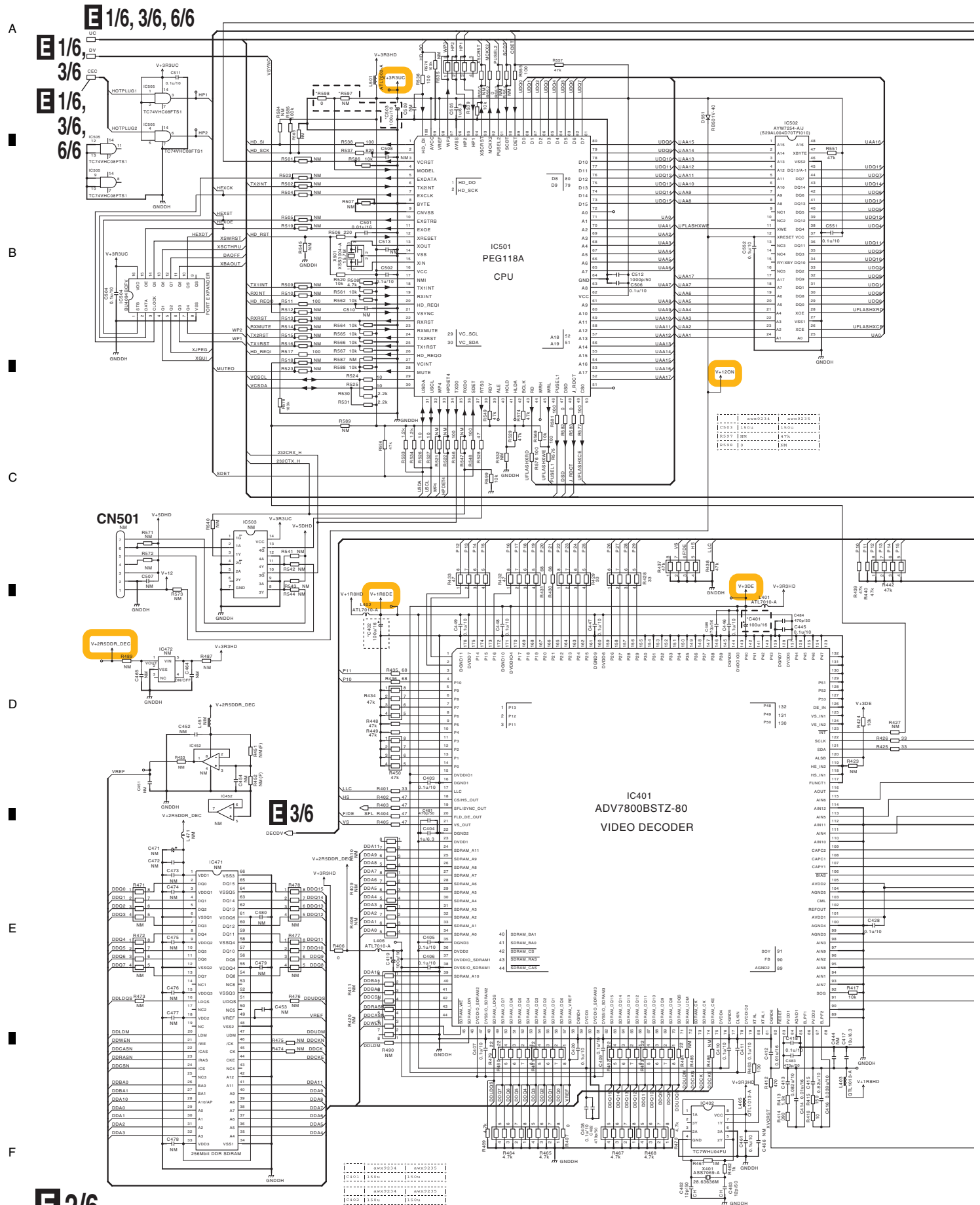
- RESISTORS
Unit: k- Ω , M- Ω or Ω unless otherwise noted.
Rated Power: 1/16w unless otherwise noted.
Tolerance: (J)5% unless otherwise noted.
- CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Ratings: Capacity(F)/Voltage(V) unless otherwise noted.
VB: CKSRV6, CH: CCSRCH, AT: QEA1
- NM: No Mount

E 1/6
108





10.9 HDMI NETWORK ASSY (2/6)





E 1/6, 2/6, 6/6



4

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113

4



E 4/6 HDMI NETWORK ASSY (SC-LX81 : AWX9234) (SC-LX71 : AWX9235)

E 6/6
CN1701
VKN1425-A

B 1/4 CN2003

E 5/6
E 2/6

(Csite) : Video Signal Route (Composite)
(OSDy) : Video Signal Route (OSDy)
(OSDb) : Video Signal Route (OSDb)
(OSDr) : Video Signal Route (OSDr)

SC-LX81

E 4/6

△



F



10.13 HDMI NETWORK ASSY (6/6)

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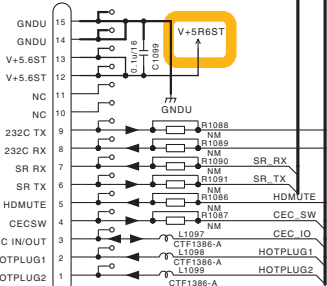
F CN7011

F CN7012

F CN7013

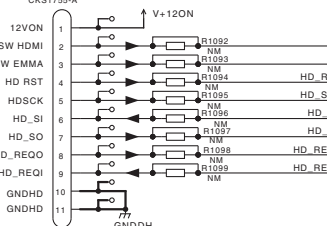
CN1002

XKP3078-A



CN1003

CKS1755-A

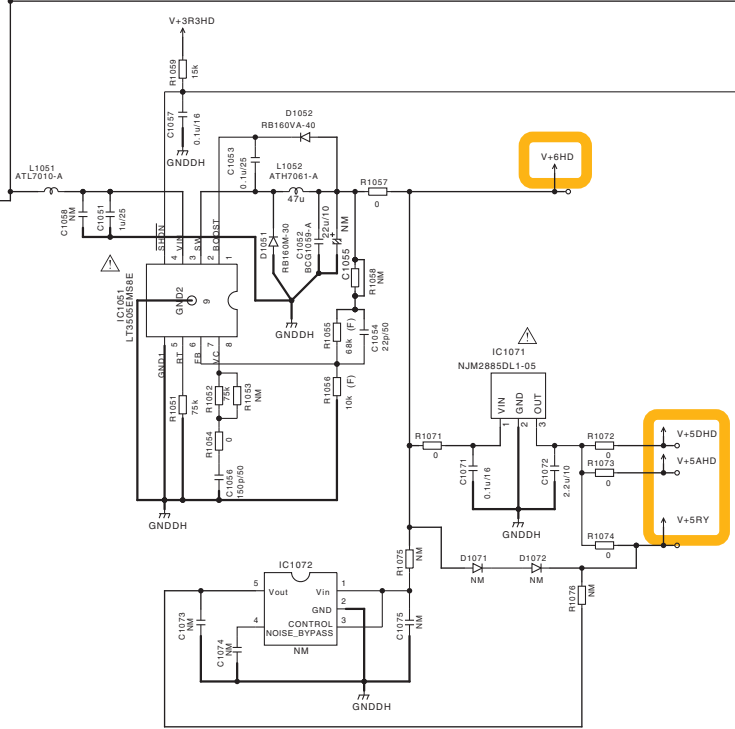
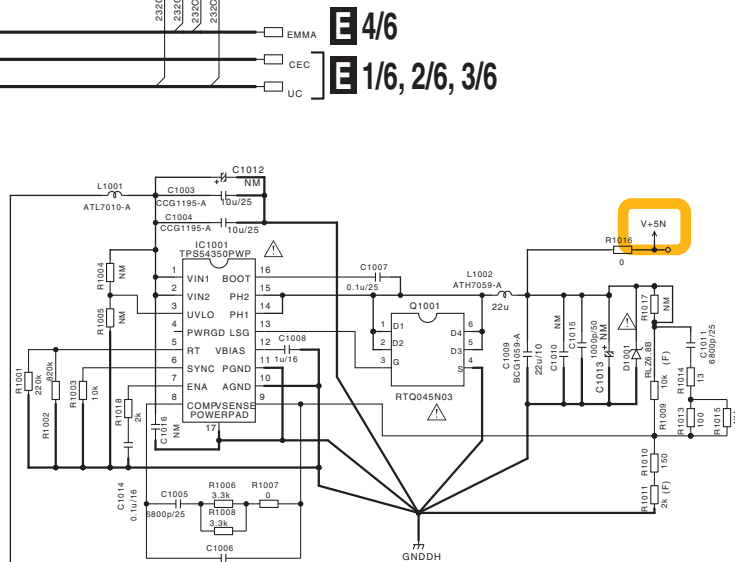
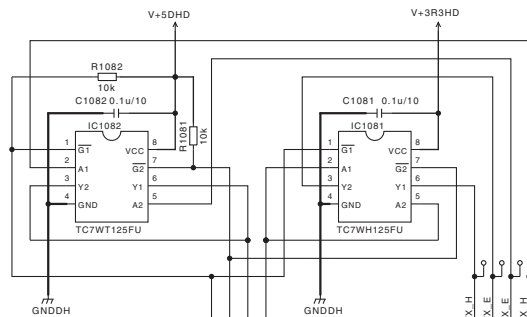


CN1001

CKS3815-A



The mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.



E 6/6

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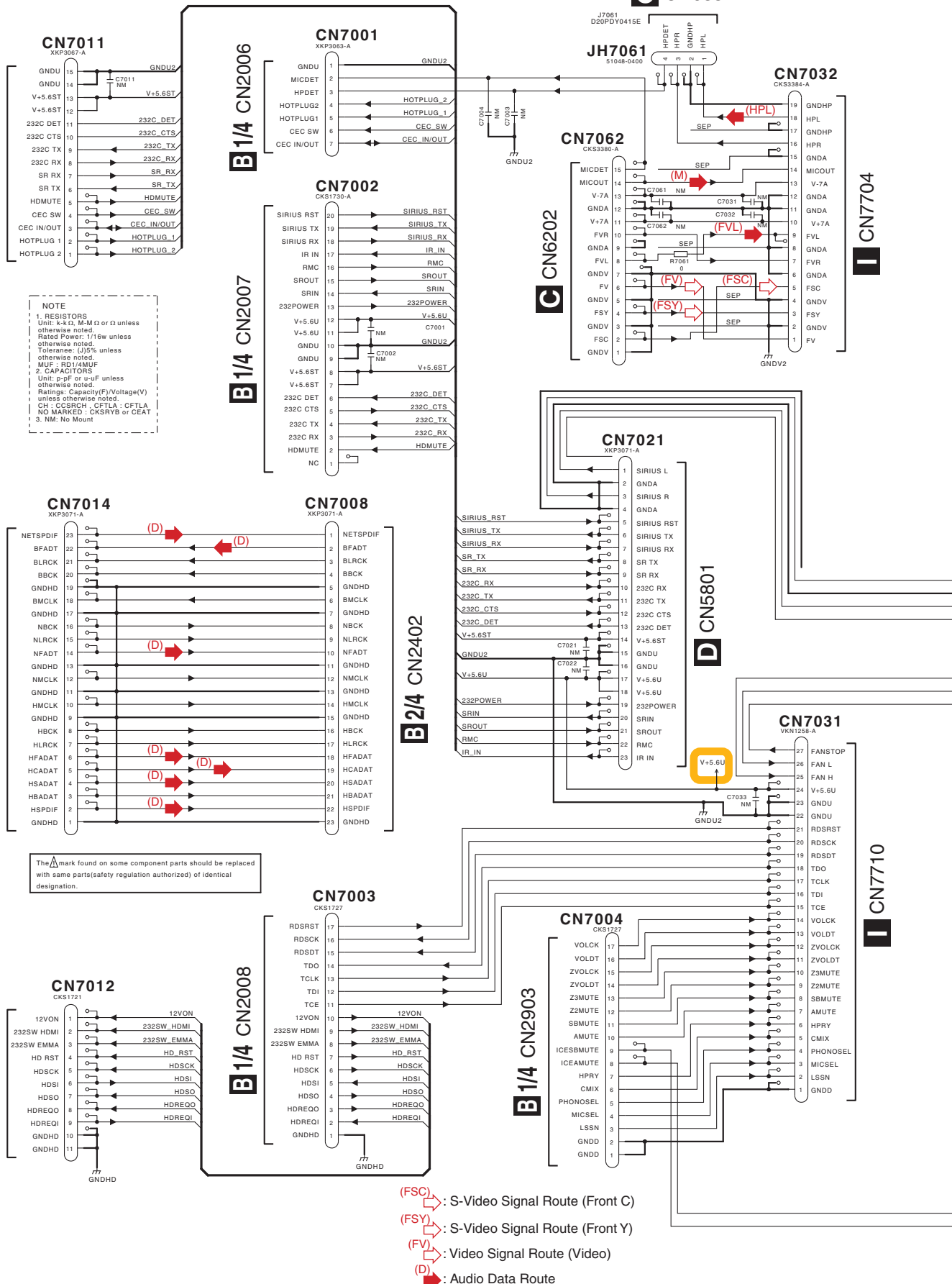
C

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10.14 INTERFACE ASSY



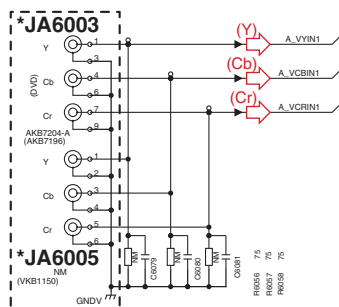
A



CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

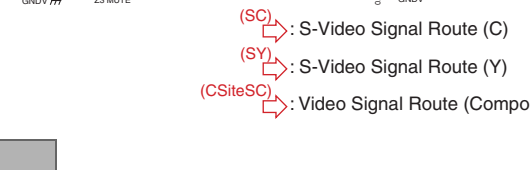
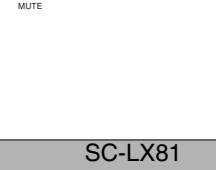
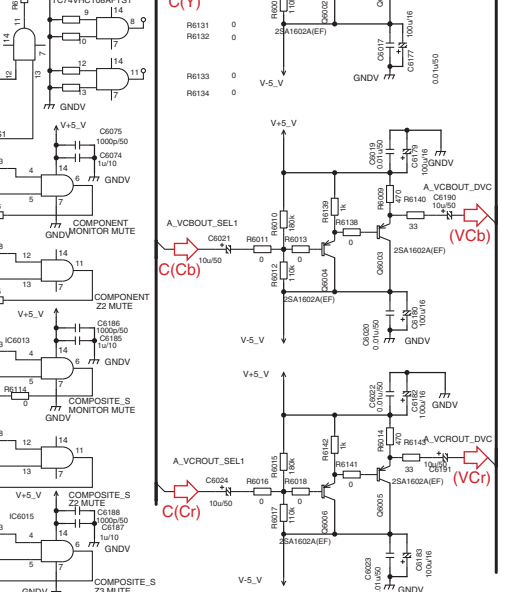
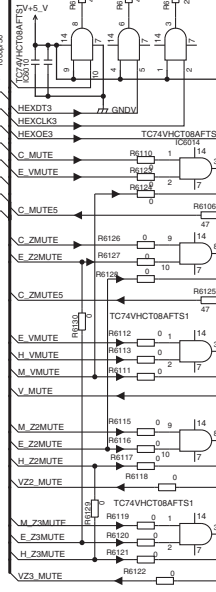
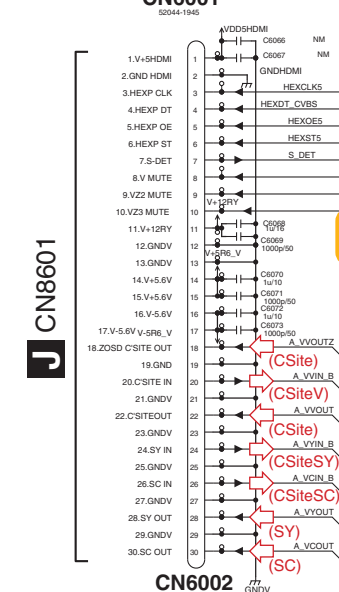
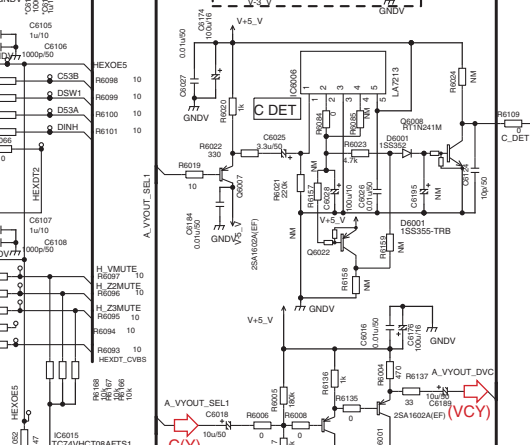
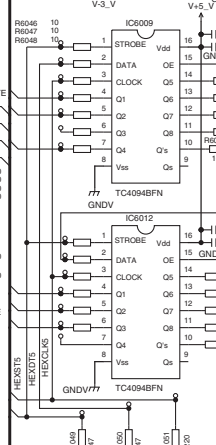
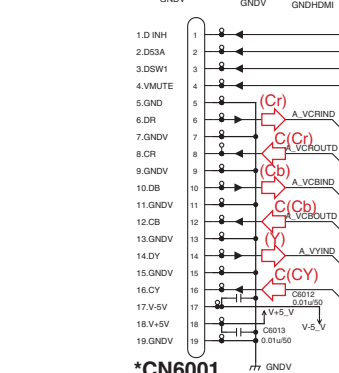
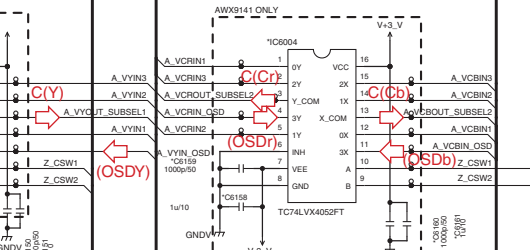
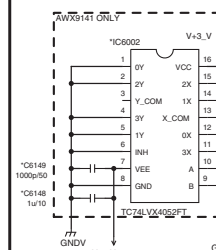
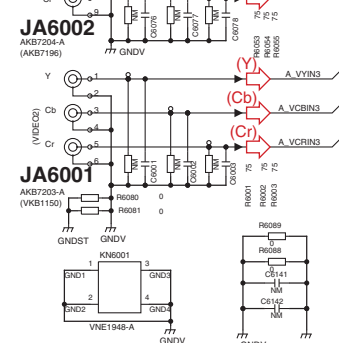
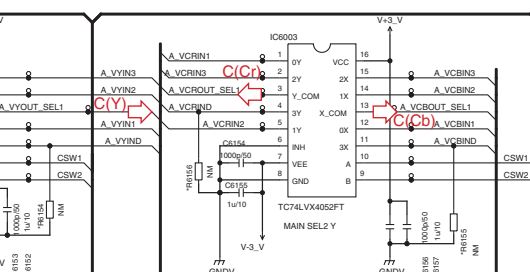
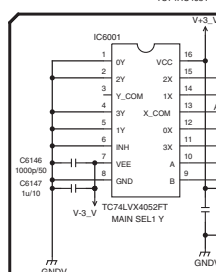


10.15 COMPONENT ASSY



*CSW2	L	L	H	H
*CSW1	L	H	L	H
OUT	0X	1X	2X	3X

INPUT SELECTOR



(SC) S-Video Signal Route (C)
(SY) S-Video Signal Route (Y)
(C Site SC) Video Signal Route (Composite C)

SC-LX81

A

otherwise noted.
Ratings: Capacity(F)/Voltage(V)
unless otherwise noted.
CH: UNDER 1000pF,
otherwise: CKSRYB.
3. NM: No Mount



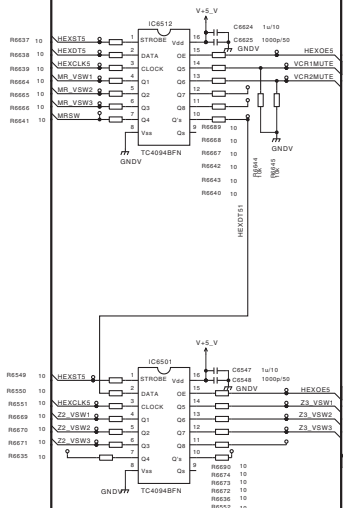
- (VCY) → Video Signal Route (VCY)
- (VCb) → Video Signal Route (VCb)
- (VCr) → Video Signal Route (VCr)
- (OSDY) → Video Signal Route (OSDY)
- (OSDb) → Video Signal Route (OSDb)
- (OSDr) → Video Signal Route (OSDr)

△

F



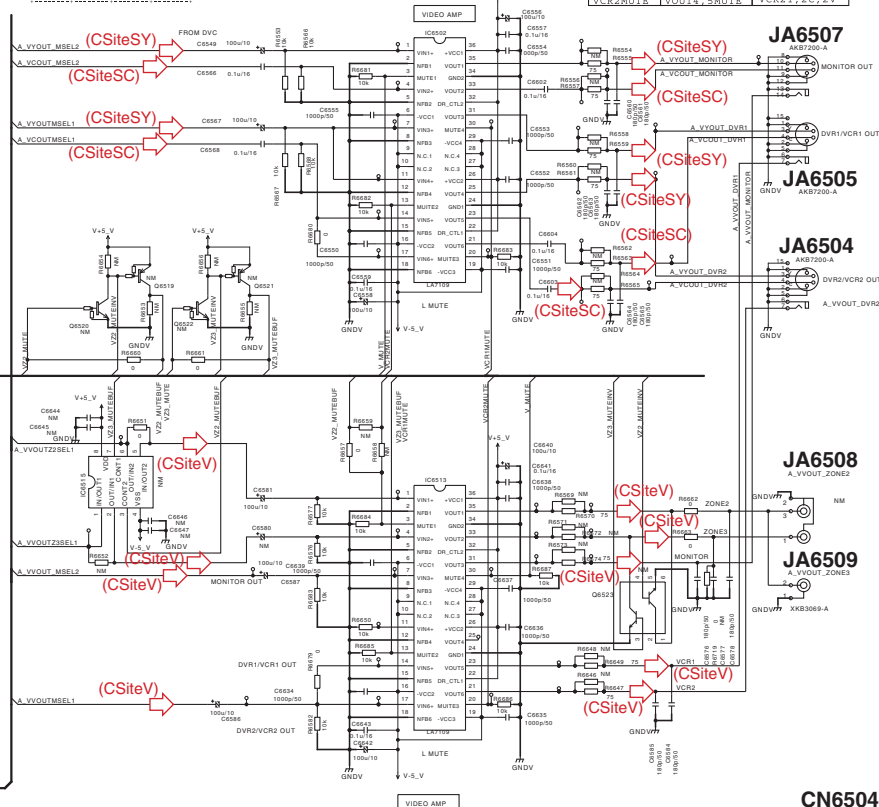
COMPOSITE S ASSY (AWX9144)



IC5812	HEX812	10	10
IC5812	HEX812	11	11
IC5812	HEX812	12	12
IC5812	HEX812	13	13
IC5812	HEX812	14	14
IC5812	HEX812	15	15
IC5812	HEX812	16	16
IC5812	HEX812	17	17
IC5812	HEX812	18	18
IC5812	HEX812	19	19
IC5812	HEX812	20	20
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IC5812	HEX812	96	96
IC5812	HEX812	97	97
IC5812	HEX812	98	98
IC5812	HEX812	99	99
IC5812	HEX812	100	100

(FSC) : S-Video Signal Route (Front C)
(FSY) : S-Video Signal Route (Front Y)
(FV) : Video Signal Route (Video)

(SC) : S-Video Signal Route (C)
(SY) : S-Video Signal Route (Y)
(CSiteSC) : Video Signal Route (Composite C)
(CSiteSY) : Video Signal Route (Composite Y)
(CSiteV) : Video Signal Route (Composite Video)
(CSite) : Video Signal Route (Composite)
(Y) : Video Signal Route (Y)
(C) : Video Signal Route (C)
(V) : Video Signal Route (V)
(FL) : Audio Signal Route (Front L ch)
(SL) : Audio Signal Route (Surround L ch)
(C) : Audio Signal Route (Center)
(SB) : Audio Signal Route (Surround Back L ch)
(SW) : Audio Signal Route (Subwoofer)



L:ACTIVE(MUTE)			
V MUTE	VOUT1.2MUTE	MONITOR1.C.V	
VCR1MUTE	VOUT3.6MUTE	VCR1Y.1C.1V	
VCR2MUTE	VOUT4.5MUTE	VCR2Y.2C.2V	

JA6507
AKB7200-A
MONITOR OUT

JA6505
AKB7200-A
DVR1/VCR1 OUT

JA6504
AKB7200-A
DVR2/VCR2 OUT

JA6508
AKB7200-A
A_VOUT_ZONE2

JA6509
AKB7200-A
A_VOUT_ZONE3

JA6502
AKB7200-A
L

JA6501
AKB7200-A
R

JA6501
AKB7200-A
C

JA6501
AKB7200-A
SW

JA6501
AKB7200-A
SL

JA6501
AKB7200-A
SB

JA6501
AKB7200-A
SW

JA6501
AKB7200-A
SL

JA6501
AKB7200-A
SB

JA6501
AKB7200-A
SW

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JA6501
AKB7200-A
SW

JA6501
AKB7200-A
SL

JA6501
AKB7200-A
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JA6501
AKB7200-A
SW

JA6501
AKB7200-A
SL

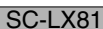
JA6501
AKB7200-A
SB

JA6501
AKB7200-A
SW

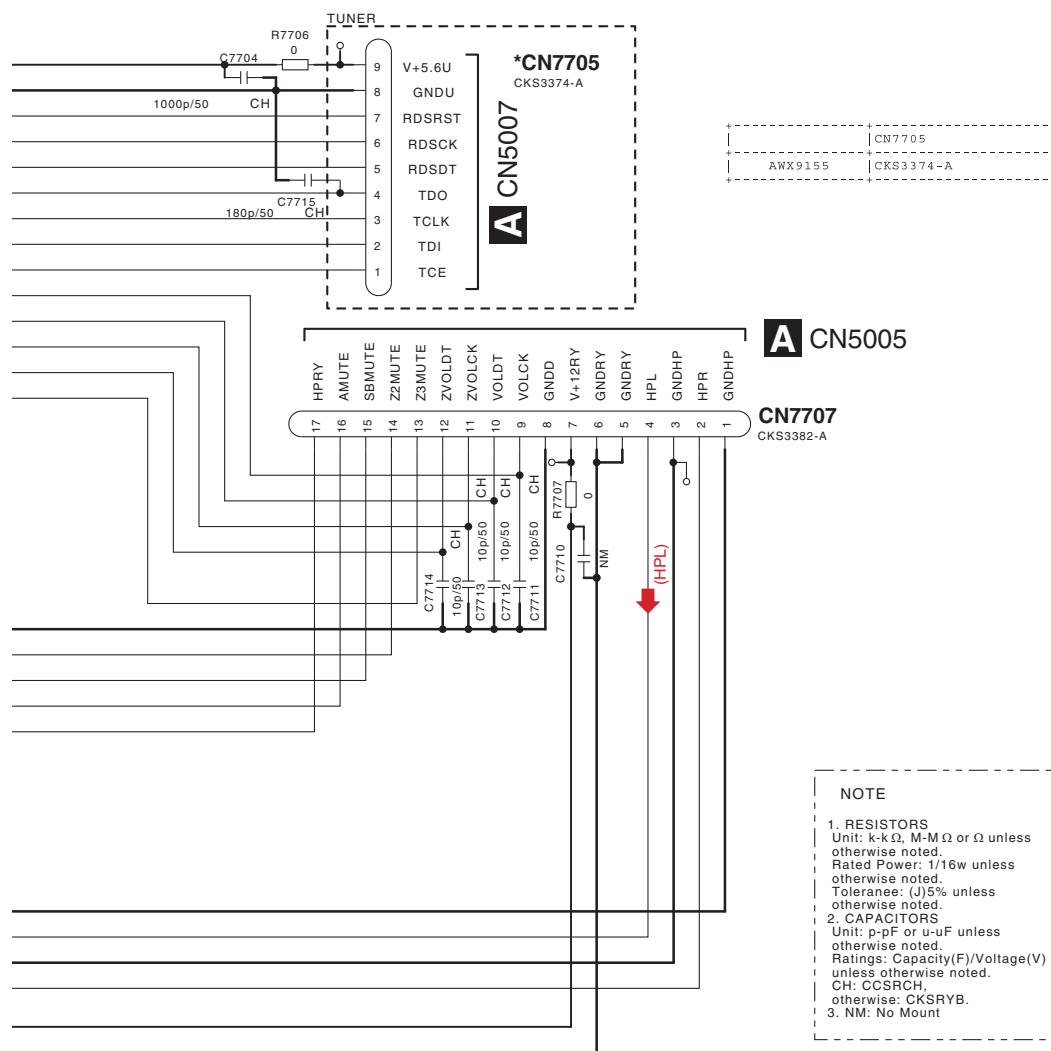
JA6501
AKB7200-A
SL

JA6501
AKB720

126



I FRONT BRIDGE ASSY (AWX9155)



- (FSC) → S-Video Signal Route (Front C)
- (FSY) → S-Video Signal Route (Front Y)
- (FV) → Video Signal Route (Video)
- (FVL) → Audio Signal Route (Video L ch)
- (M) → Audio Signal Route (Mic)
- (HPL) → Audio Signal Route (Headphone L ch)

4

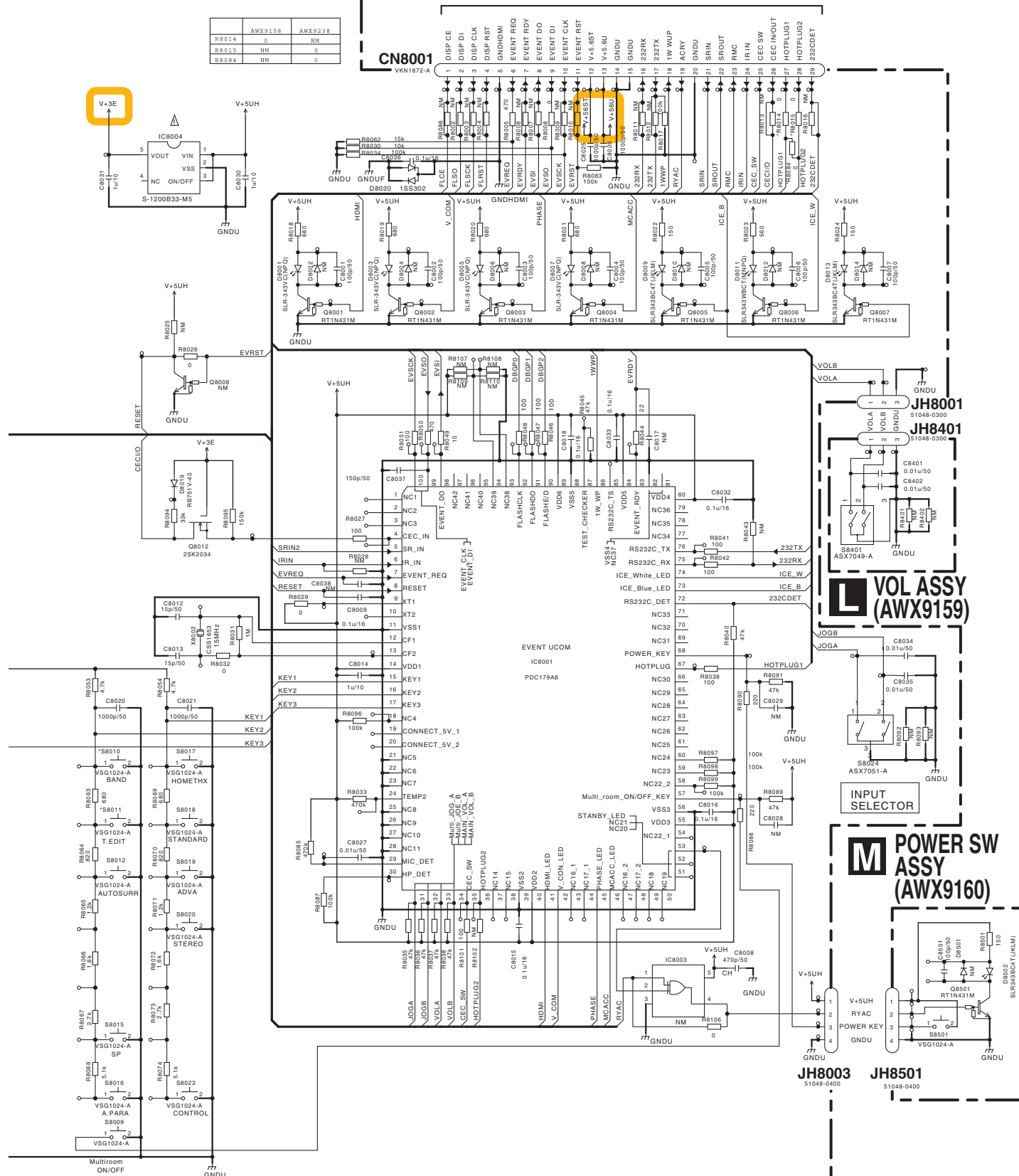
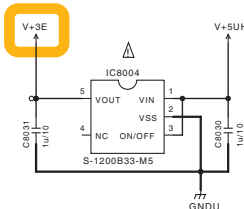
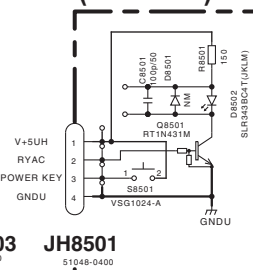
F



K DISPLAY ASSY (SC-LX81 : AWX9158) (SC-LX71 : AWX9238)

B 1/4 CN2002

	AWX9158	AWX9238
R8014	0	NM
R8015	NM	0
R8084	NM	0

CN8001
VK1872-A

M POWER SW
ASSY
(AWX9160)

JH8003 51048-0400
JH8501 51048-0400

K L M

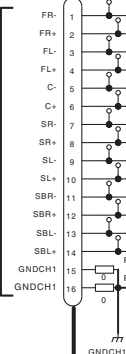
SC-LX81

129

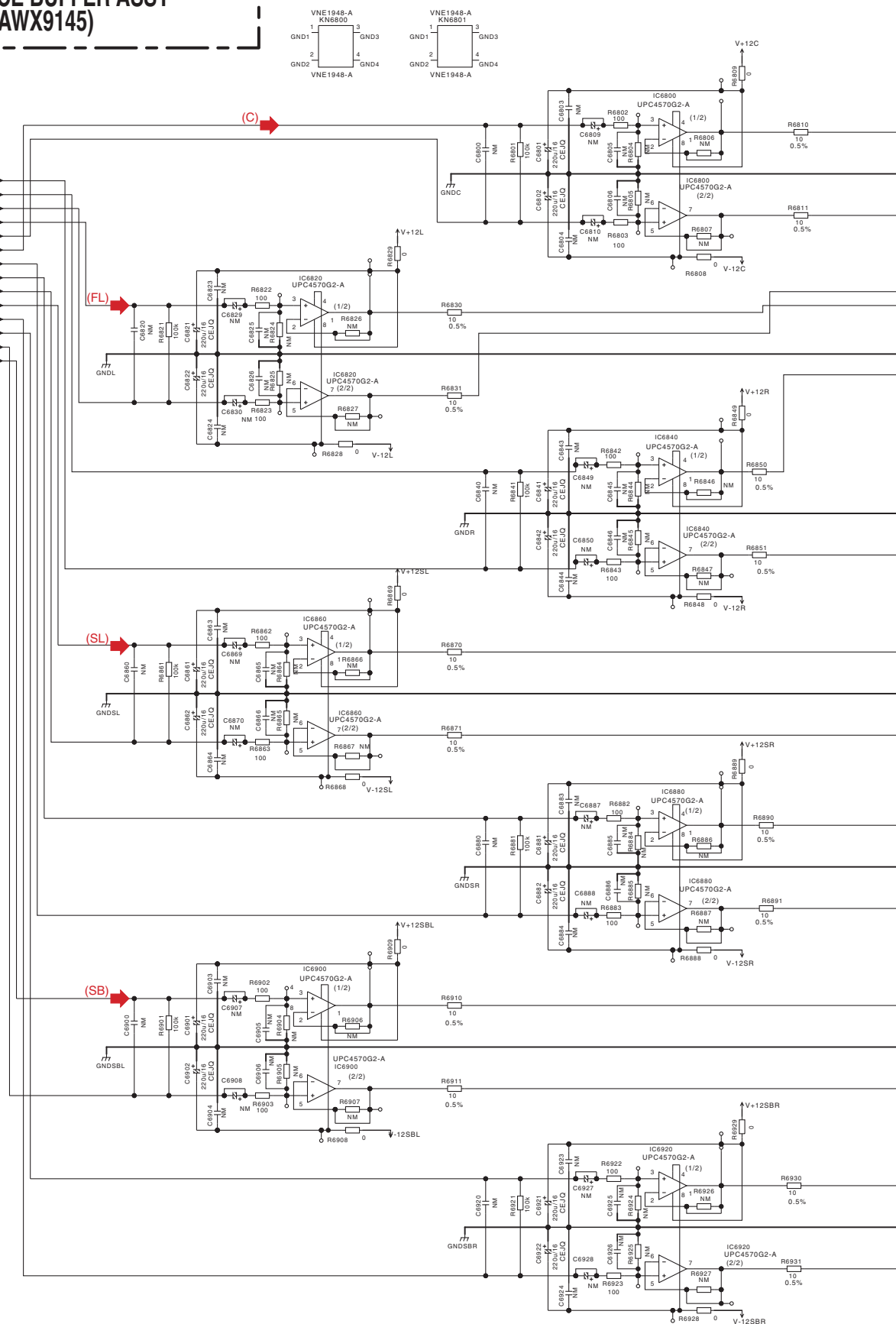
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**ICE BUFFER ASSY
(AWX9145)**

CN6800
IMSA-9850B-16A-T



N CN6953

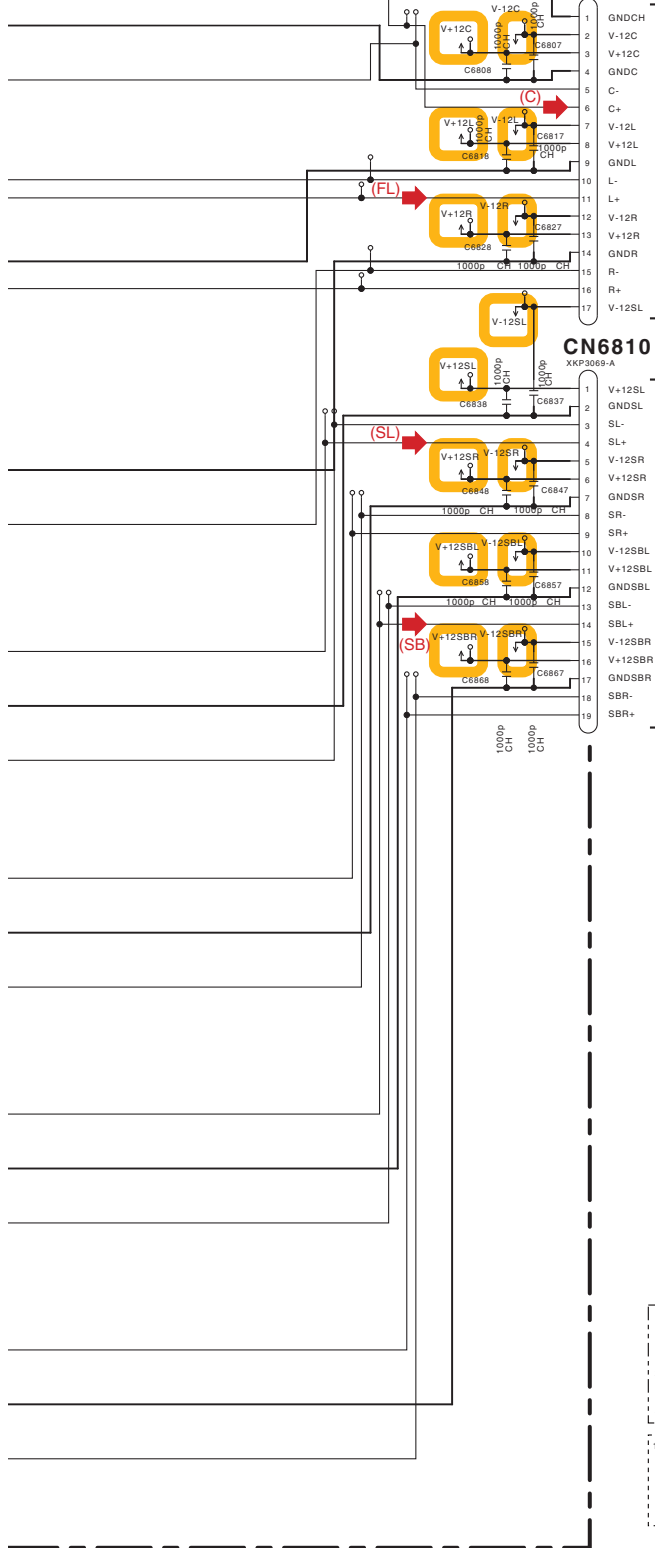
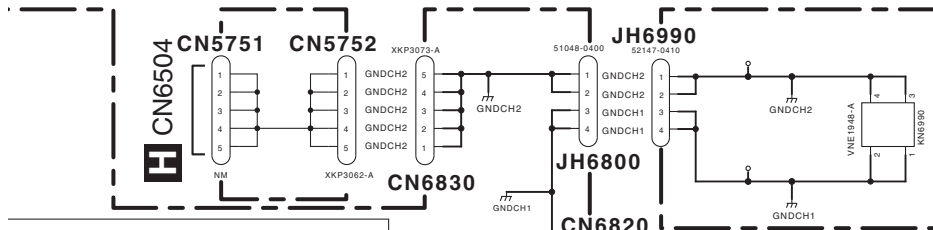


SC-LX81

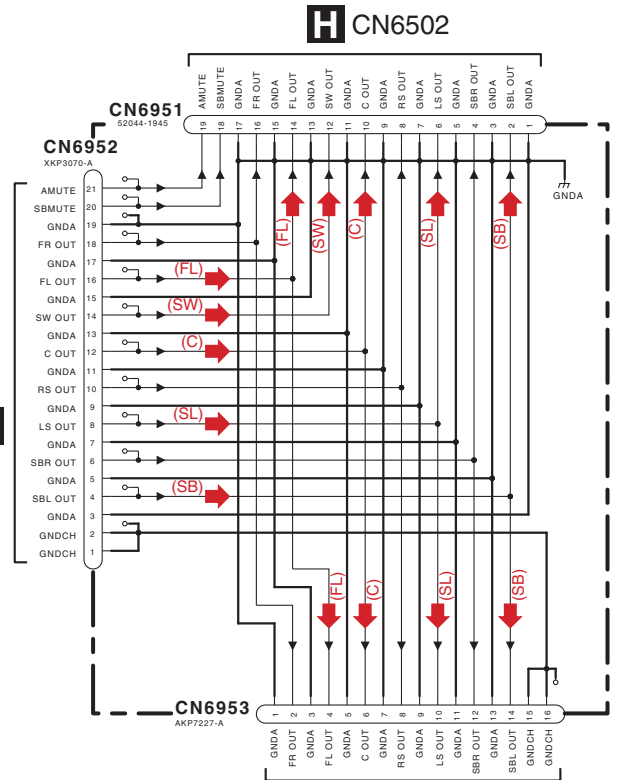
F

U PRIMARY GUARD ASSY (AWX9172)

R ICE SHIELD ASSY (AWX9173)



N PRE BRIDGE ASSY (AWX9146)



O CN6800

- (FL) : Audio Signal Route (Front L ch)
- (SL) : Audio Signal Route (Surround L ch)
- (C) : Audio Signal Route (Center)
- (SB) : Audio Signal Route (Surround Back L ch)
- (SW) : Audio Signal Route (Subwoofer)

NOTE
1. RESISTORS
Unit: k-Ω, M-Ω or Ω, unless otherwise noted.
Rated Power: 1/16W unless otherwise noted.
Tolerance: ±0.5% unless otherwise noted.
2. CAPACITORS
Unit: p-pF or u-uF unless otherwise noted.
Rating: Capacity(F)/Voltage(V) unless otherwise noted.
3. NM: No Mount

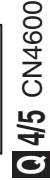
1608 SIZE	2125 SIZE	3216 SIZE
RS1/16S*** RN1/16S***	RS1/10S*** RS1/8SQ***	RS1/8S*** RS1/4SA***
CCSR*** CKSR***	CCSQ*** CKSQ***	CCS*** CKS***

NORU

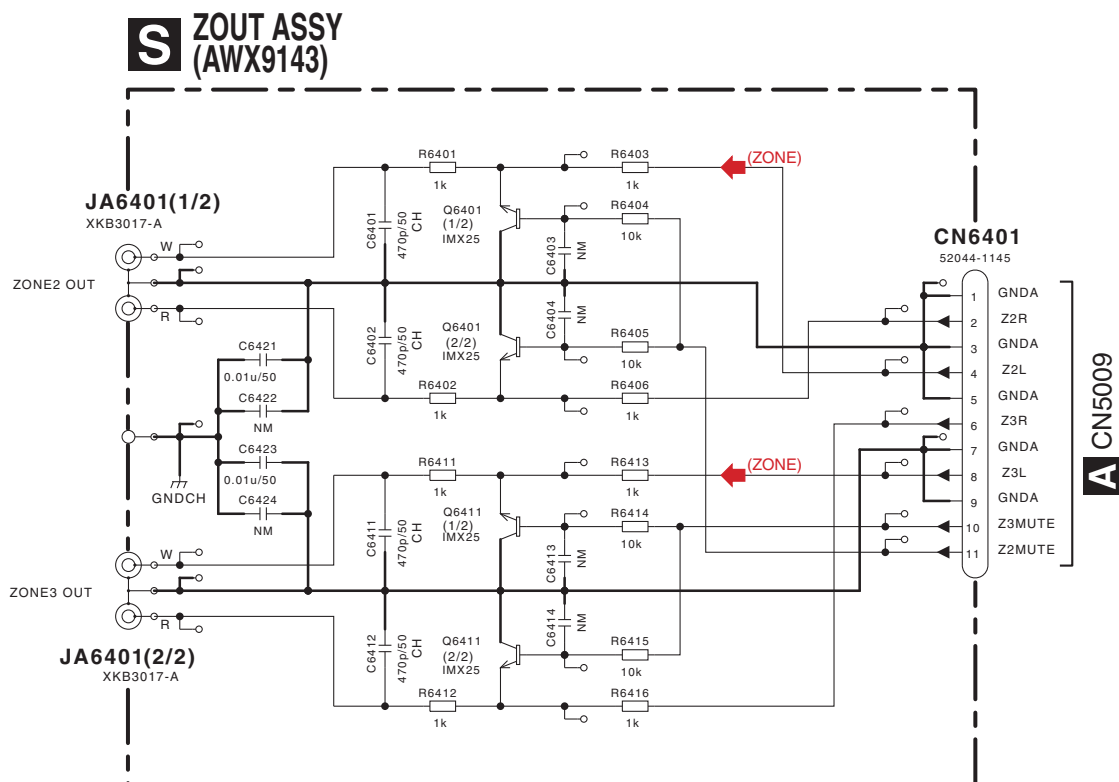
SC-LX81

131

1



1608 SIZE	2125 SIZE	3216 SIZE
 RS1/16S*** RN1/16S***	 RS1/10S*** RS1/8SQ***	 RS1/8S*** RS1/4SA***
 CCS*** CKS***	 CCSQ*** CKSQ***	 CCS*** CKS***



10.21 ICEPOWER AMP (1/5)

A

B

C

D

E

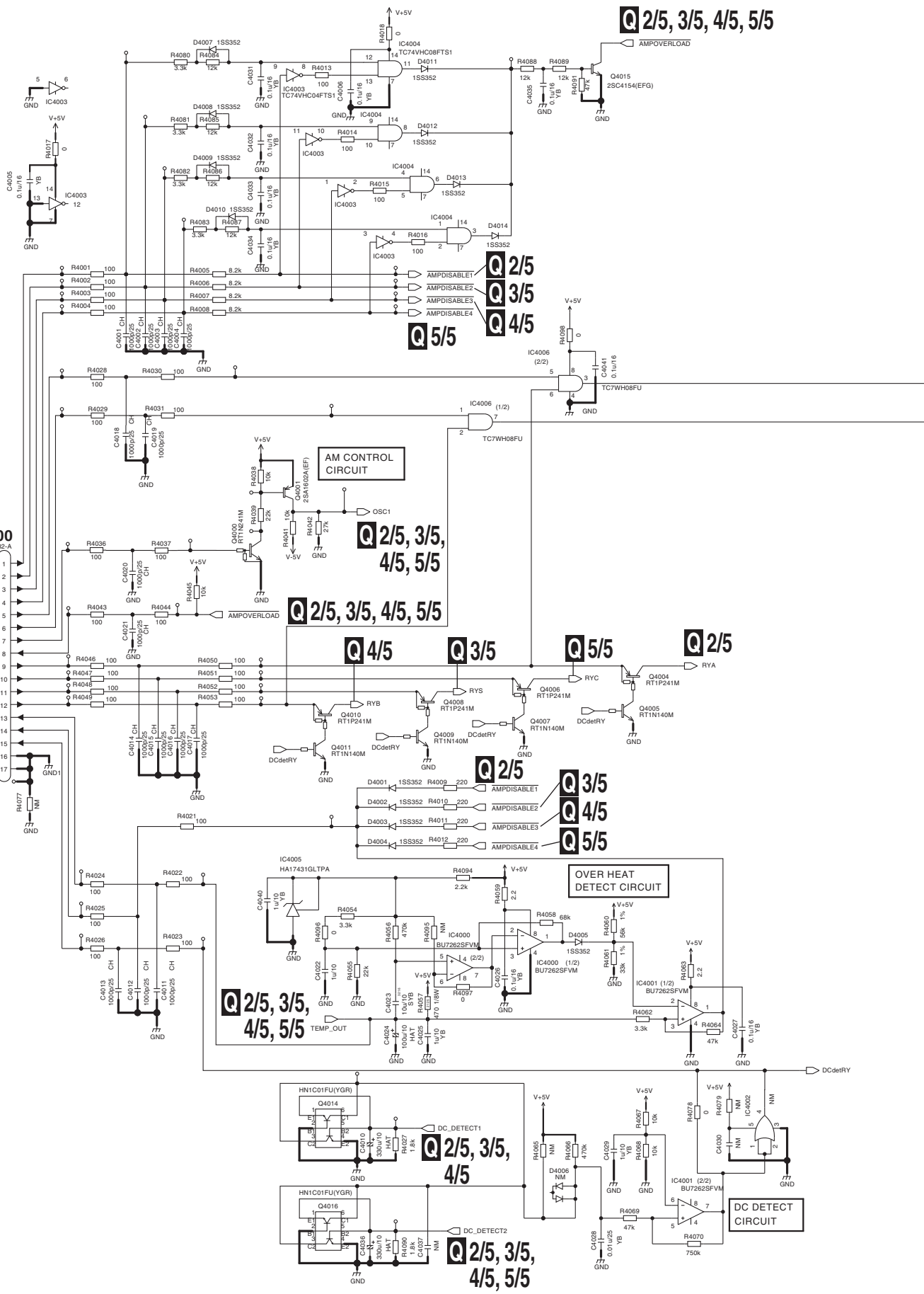
F

F CN7051

Q 1/5

134

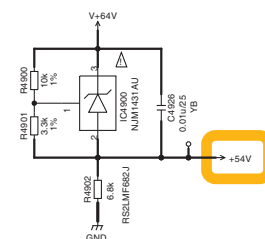
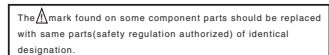
1 2 3 4



SC-LX81

1 2 3 4

A



1608 SIZE	2125 SIZE	3216 SIZE
 RS1/16S*** RN1/16S***	 RS1/10S***  RS1/8SQ***	 RS1/8S***  RS1/4SA***
 CCS*** CKS***	 CCSQ*** CKSQ***	 CCS*** CKS***

△

△

A



C

D

E

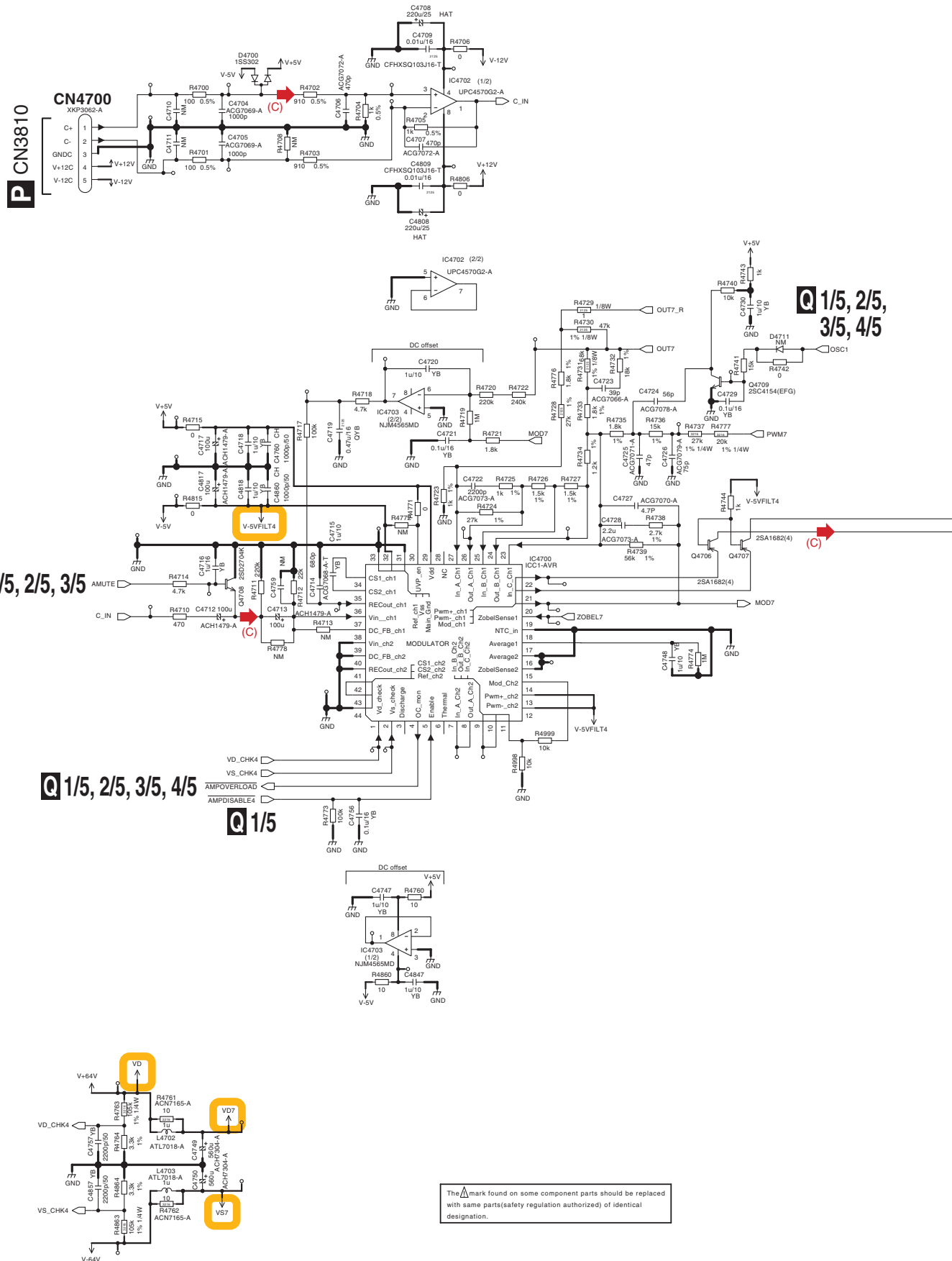
F

4

F



10.25 ICEPOWER AMP (5/5)



Q 5/5

A



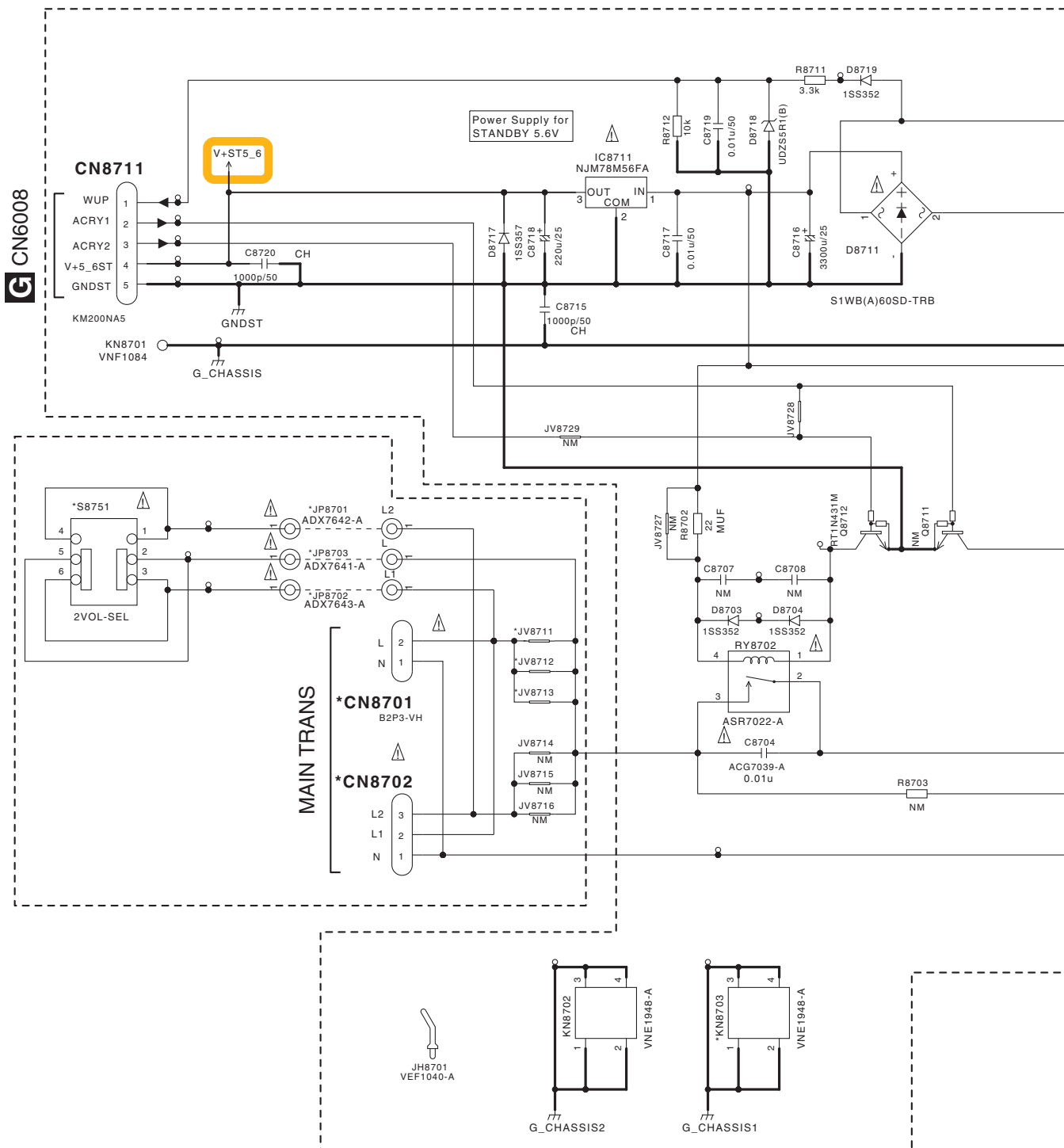
E

F

1

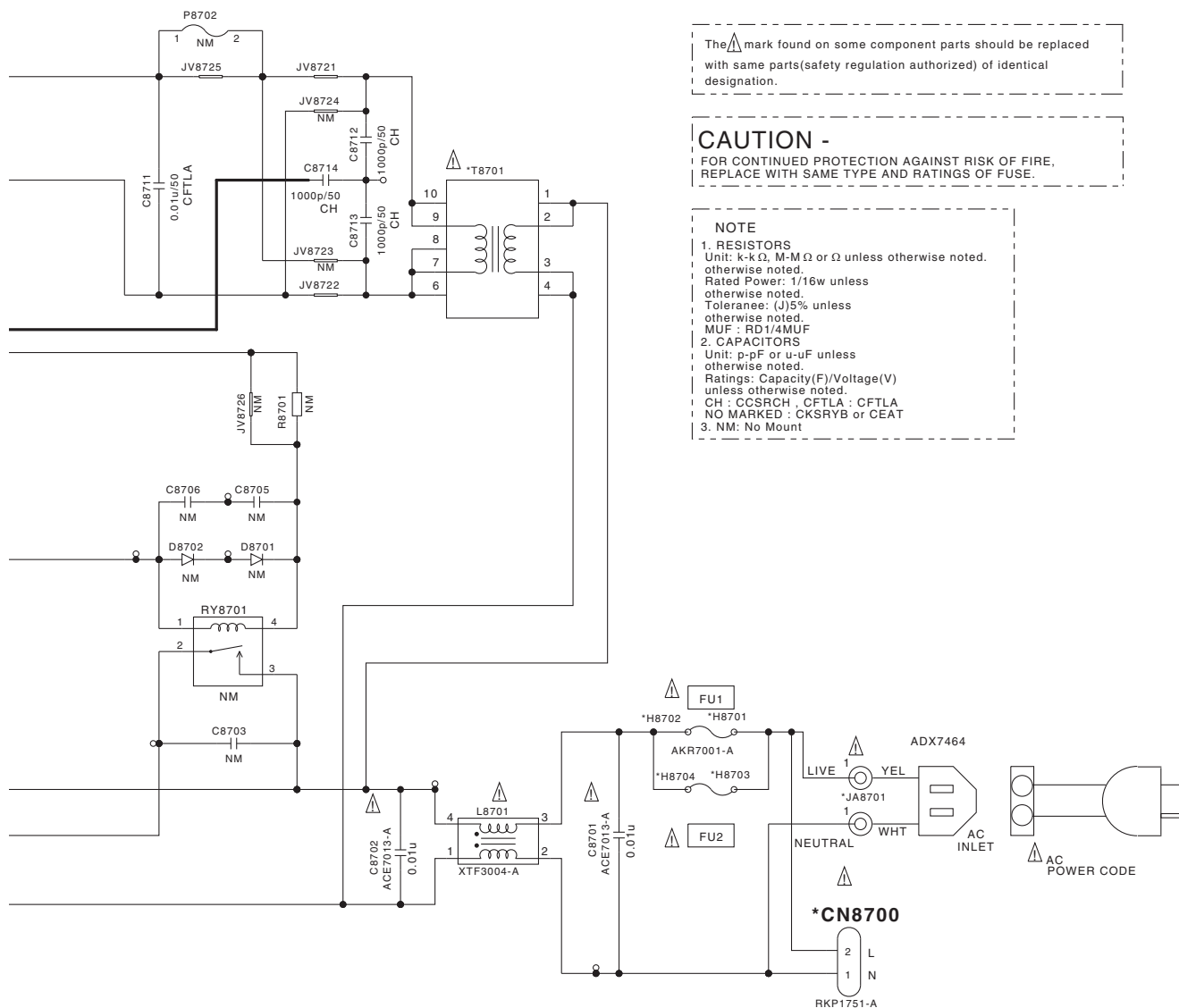
10.26 PRIMARY ASSY

	AWX9166
CN8701	NM
CN8702	B3P5-VH
JP8701	NM
JP8702	NM
JP8703	NM
JP8701_1	NM
JP8702_1	NM
JP8703_1	NM
JV8711	
JV8712	
JV8713	
S8751	NM



T PRIMARY ASSY (AWX9166)

	AWX9166
CN8700	NM
H8701	AKR7001-A
H8702	AKR7001-A
H8703	NM
H8704	NM
JA8701	ADX7464-A
JA8701_1	ADX7464-A_1
KN8703	VNE1948-A
T8701	ATT7040-A



PRIMARY ASSY

△





10.28 ICE REG ASSY

A

B

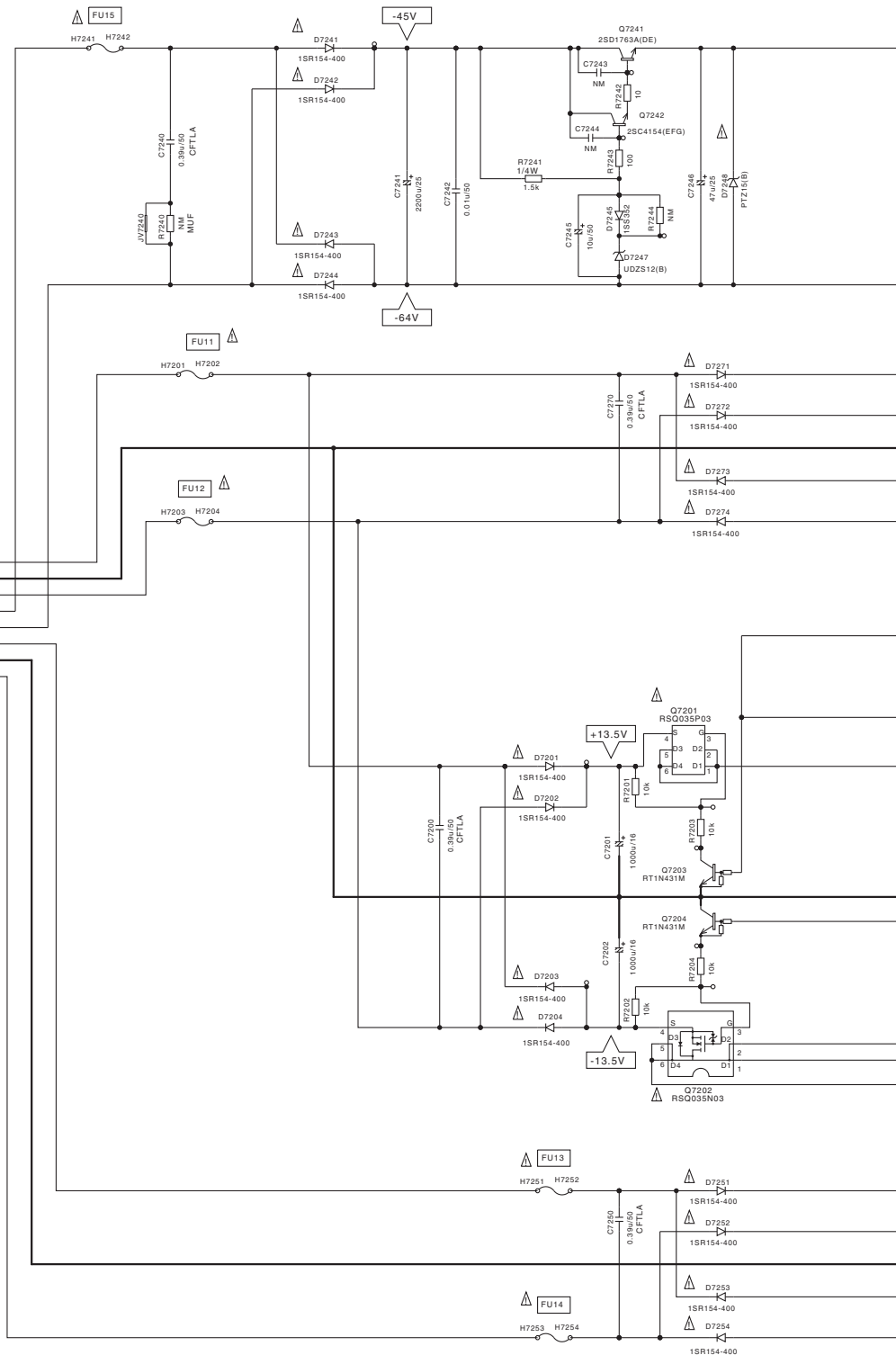
C

D

E

F

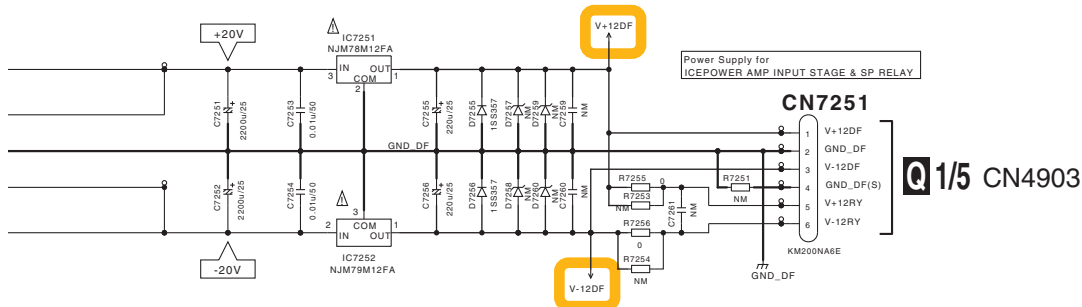
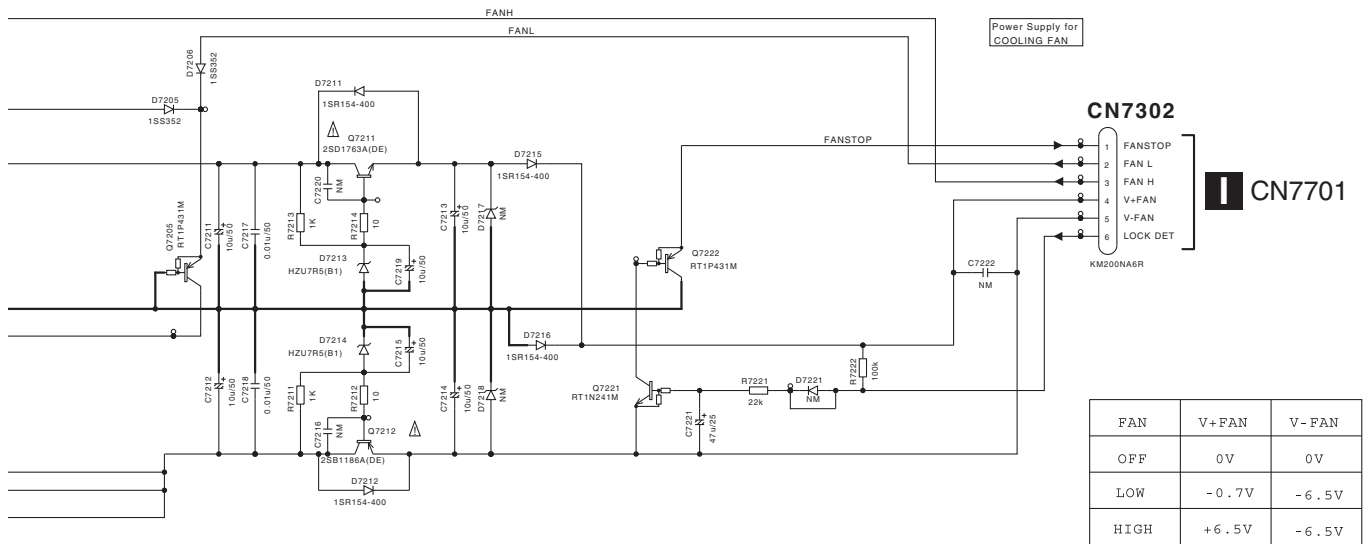
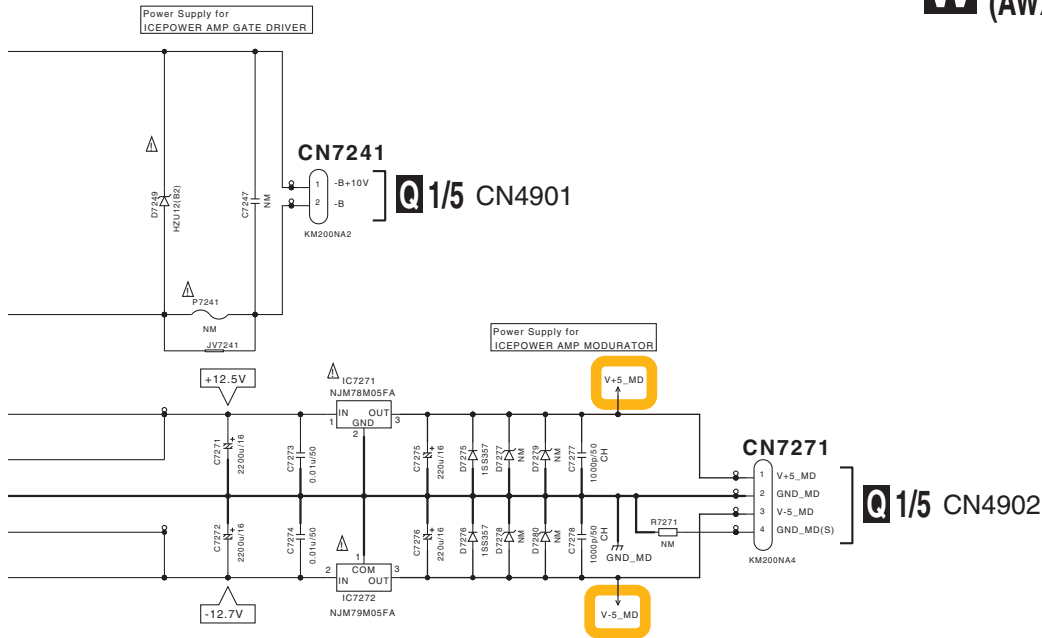
MAIN TRANS
CN7201
SEC3-1
SEC3-C
SEC3-2
SEC2-1
SEC2-2
SEC9-1
SEC9-C
SEC9-2
BBB-EH



NOTE
1. RESISTORS
Unit: k- Ω , M- Ω or Ω unless
otherwise noted.
Rated Power: 1/16W unless
otherwise noted.
Tolerance: (J)5% unless
otherwise noted.
MUF: RD1/4MUF
2. CAPACITORS
Unit: p-pF or μ -uF unless
otherwise noted.
Ratings: Capacity(F)/Voltage(V)
unless otherwise noted.
CH: CCSRCH, CFTLA: CFTLA
NO MARKED: CCSRYB or CEAT
3. NM: No Mount



**CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.**



The  mark found on some component parts should be replaced with same parts(safety regulation authorized) of identical designation.

A

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE,
REPLACE WITH SAME TYPE AND RATINGS OF FUSE.

B

C

D

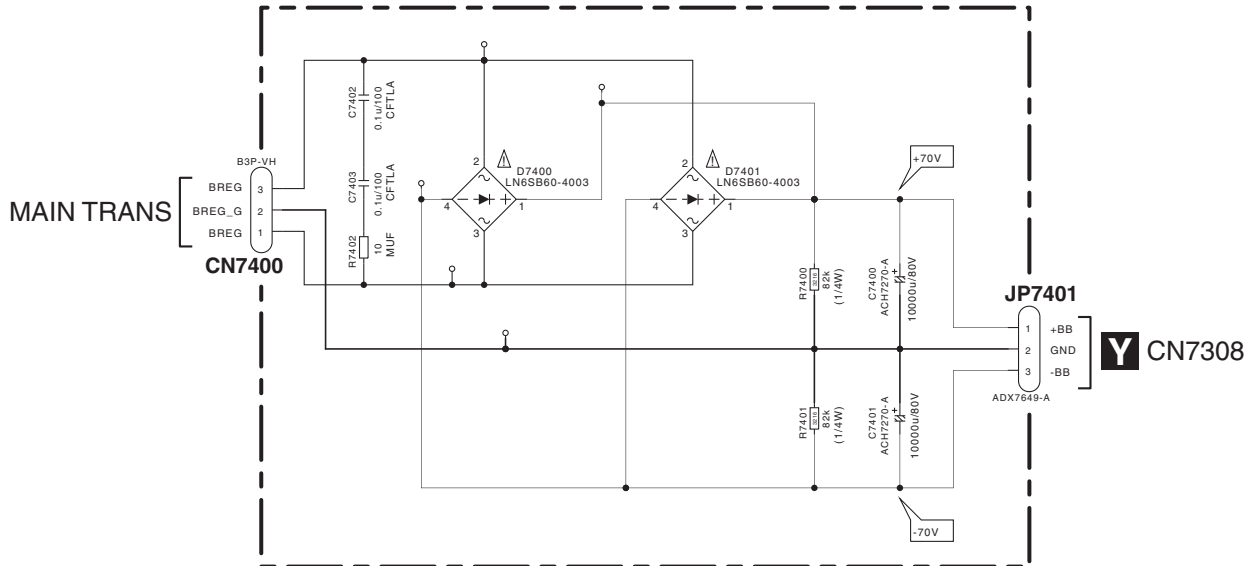


PROTECTION DETECT		
	Normal	Detect
BERR	Hi	Low
BTEMP	Low	Hi

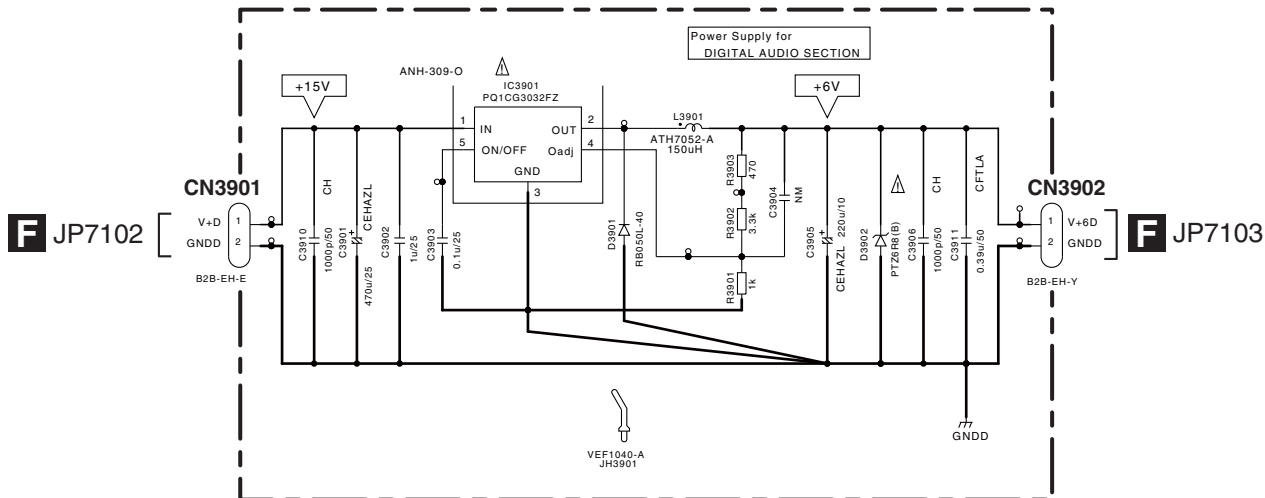


10.30 B DIODE, DCDC, and HDMI RECT ASSYS

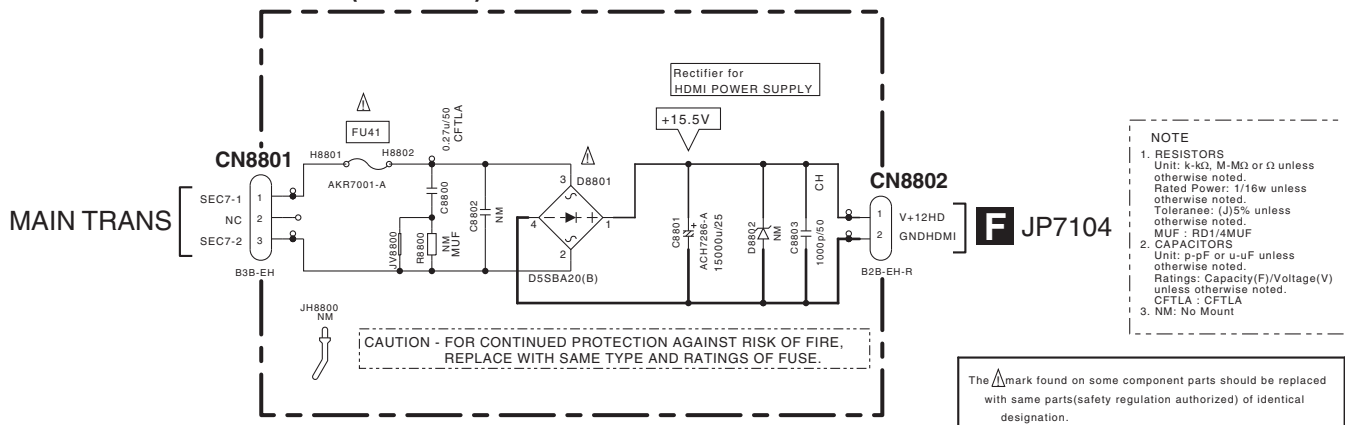
X B DIODE ASSY (AWX9171)



Z DCDC ASSY (AWX9138)



AA HDMI RECT ASSY (AWX9156)



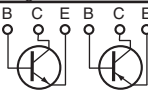
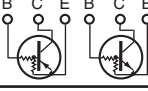
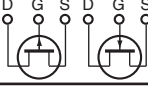
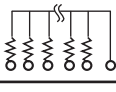
X Z AA

X Z AA

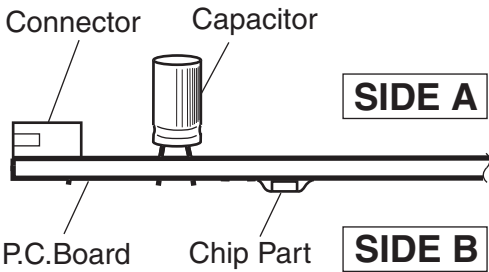
11. PCB CONNECTION DIAGRAM

NOTE FOR PCB DIAGRAMS :

1. Part numbers in PCB diagrams match those in the schematic diagrams.
2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
		Transistor
		Transistor with resistor
		Field effect transistor
		Resistor array
		3-terminal regulator

3. The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.
4. View point of PCB diagrams.



SIDE A

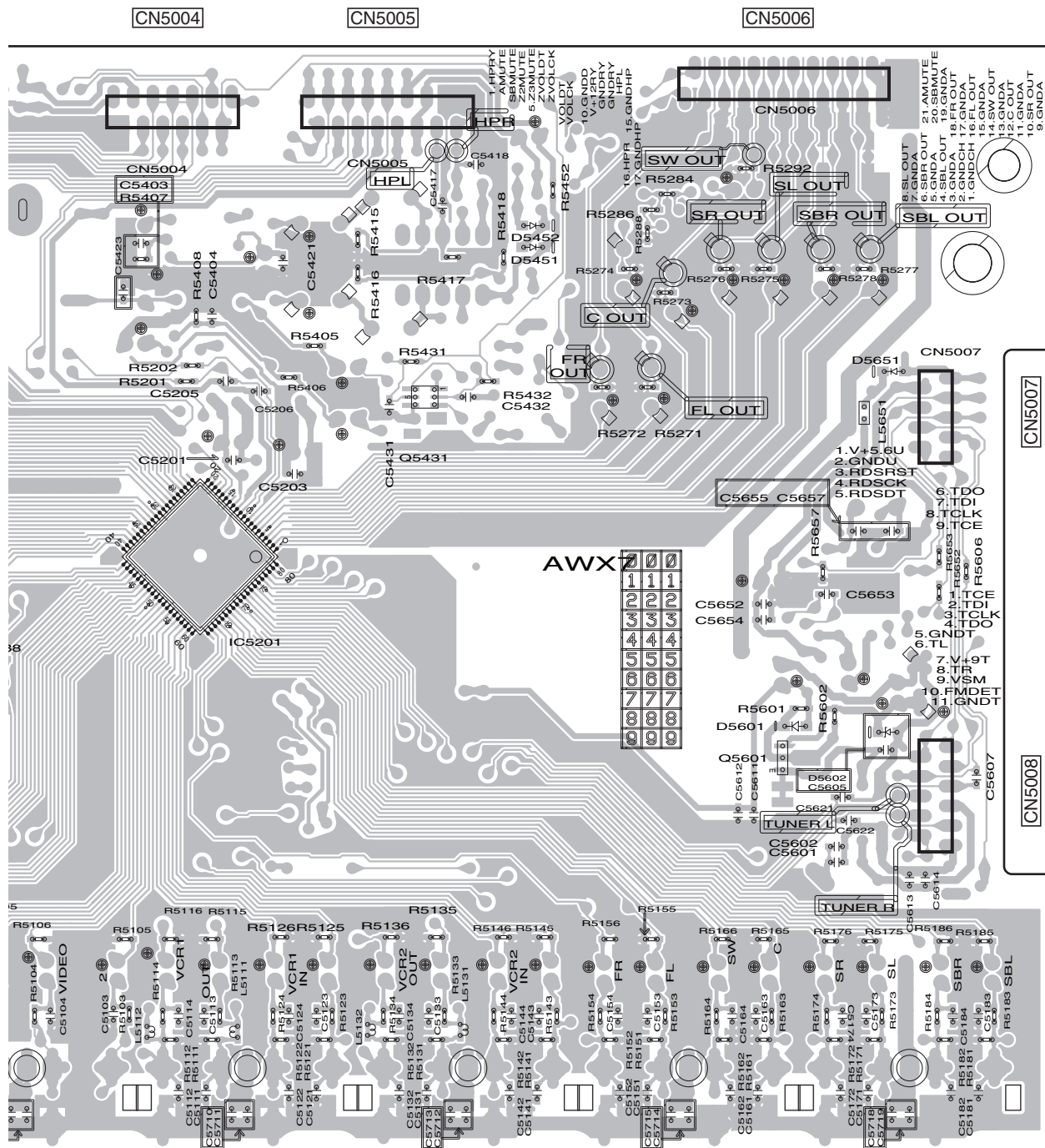
A AUDIO ASSY

AUDIO ASS'Y
AWX9139

AWX9206
AWX9207
AWX9208
AWX

PC

TO TUNER



(ANP7650-D)

A

B

C

D

E

F



A



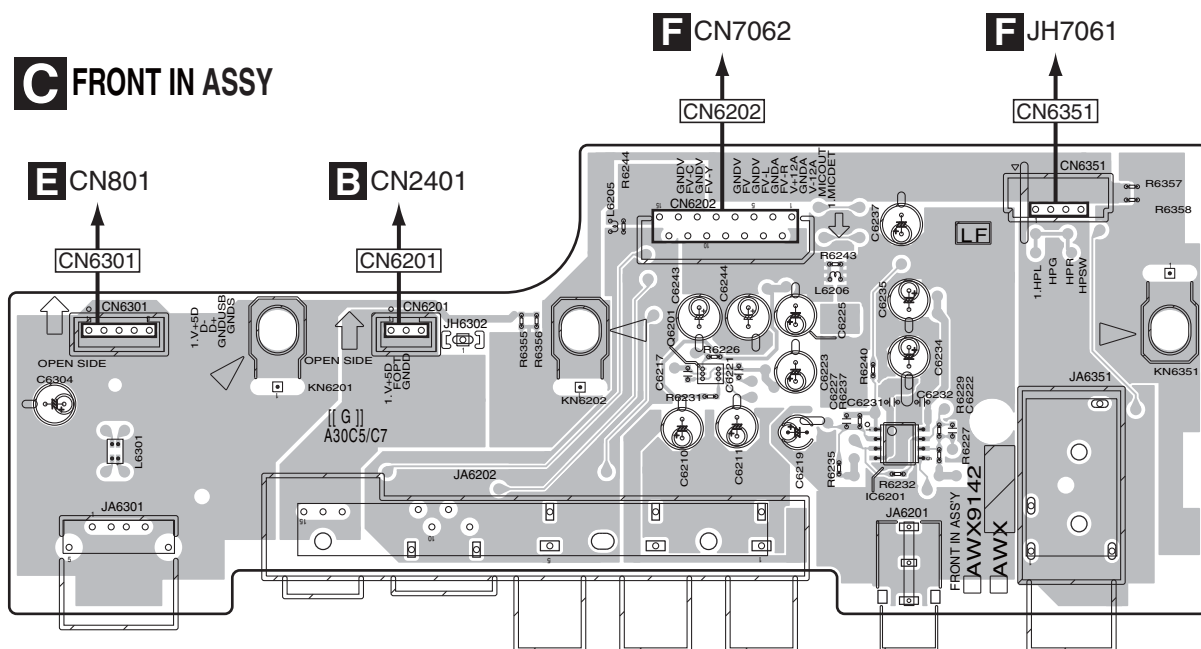
D

E

F

159

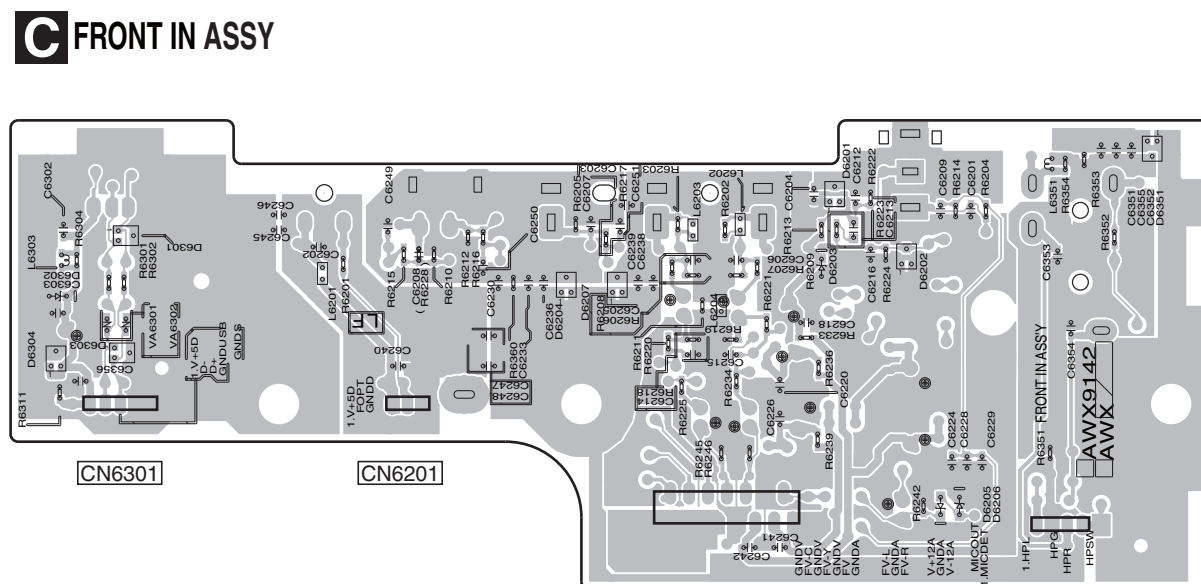
SC-LX81

SIDE A**SIDE A**

(ANP7651-B)

SIDE B

SIDE B



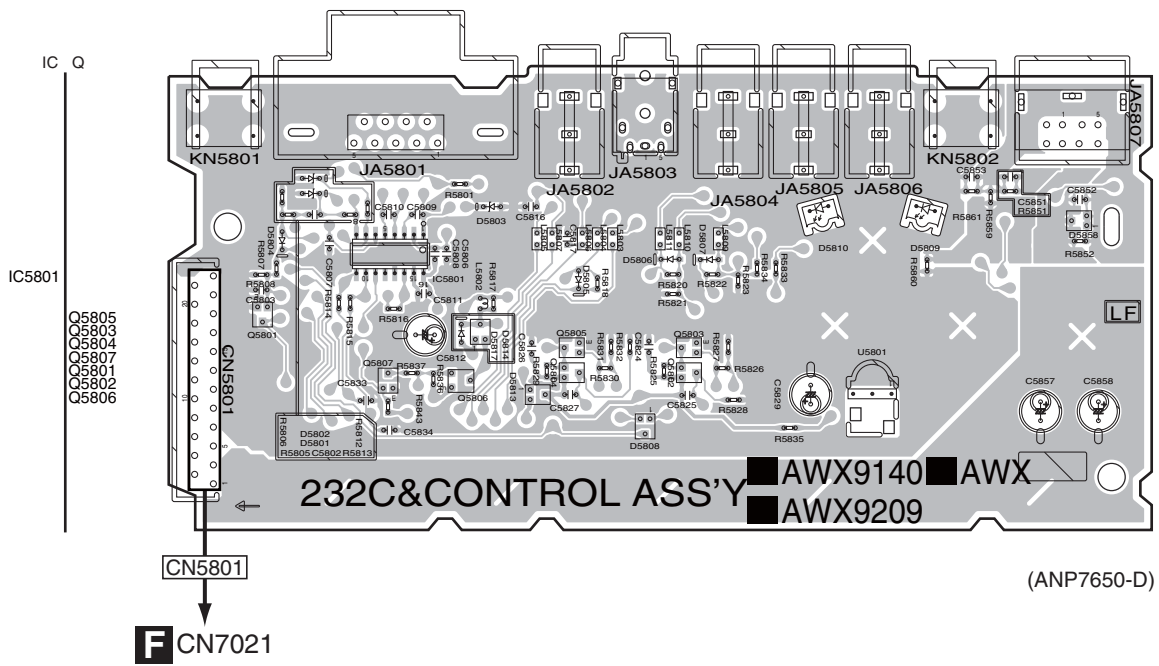
351
(ANP7651-B)

11.4 232C & CONTROL ASSY

SIDE A

SIDE A

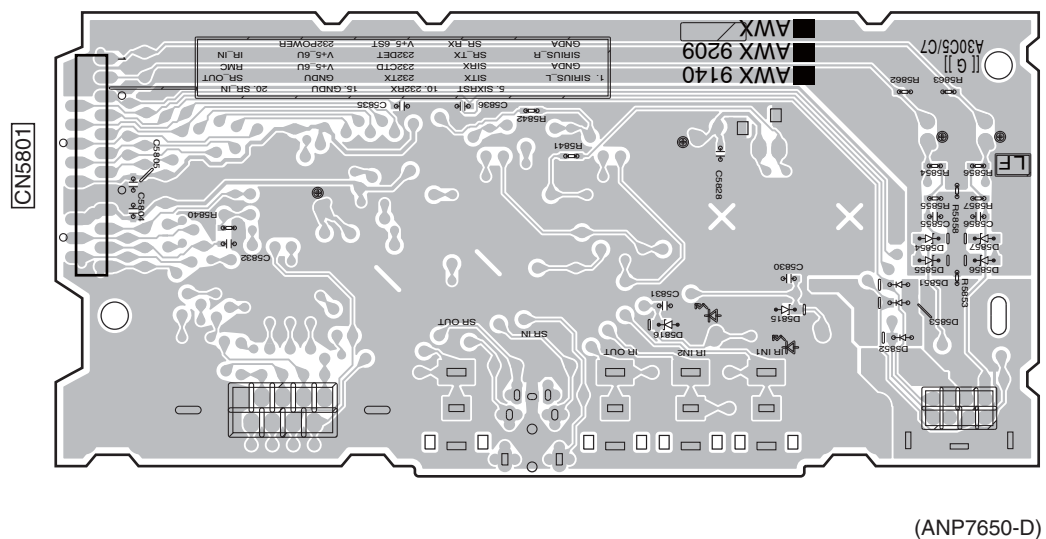
D 232C & CONTROL ASSY



SIDE B

SIDE B

D 232C & CONTROL ASSY



D

D

SIDE A

CNE

B CN2003

CN1701

F CN7013

SC-LX81

A

C

D

E

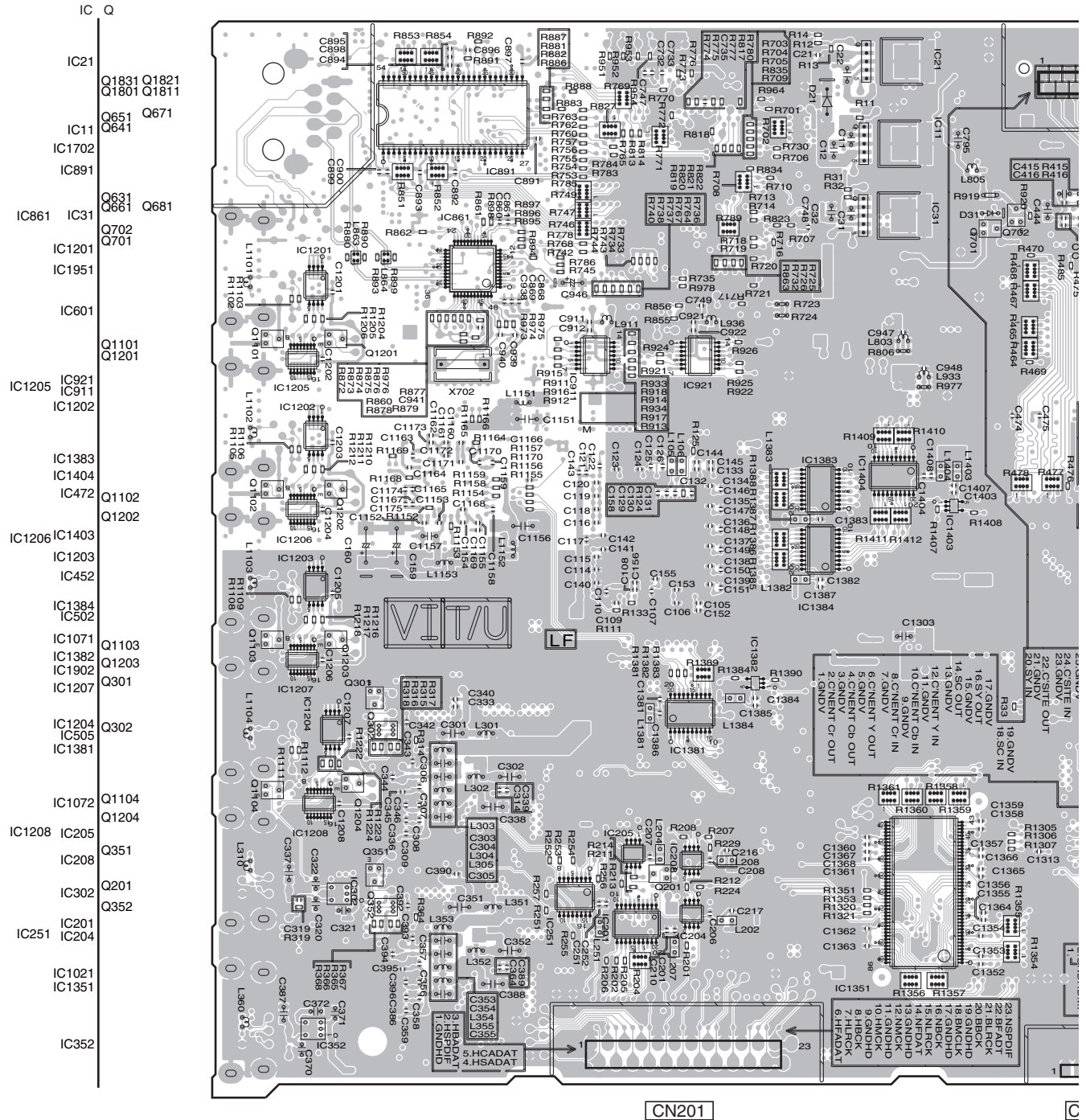
F

165



SC-LX81

SIDE B

E HDMI NETWORK ASSY

A

C

D

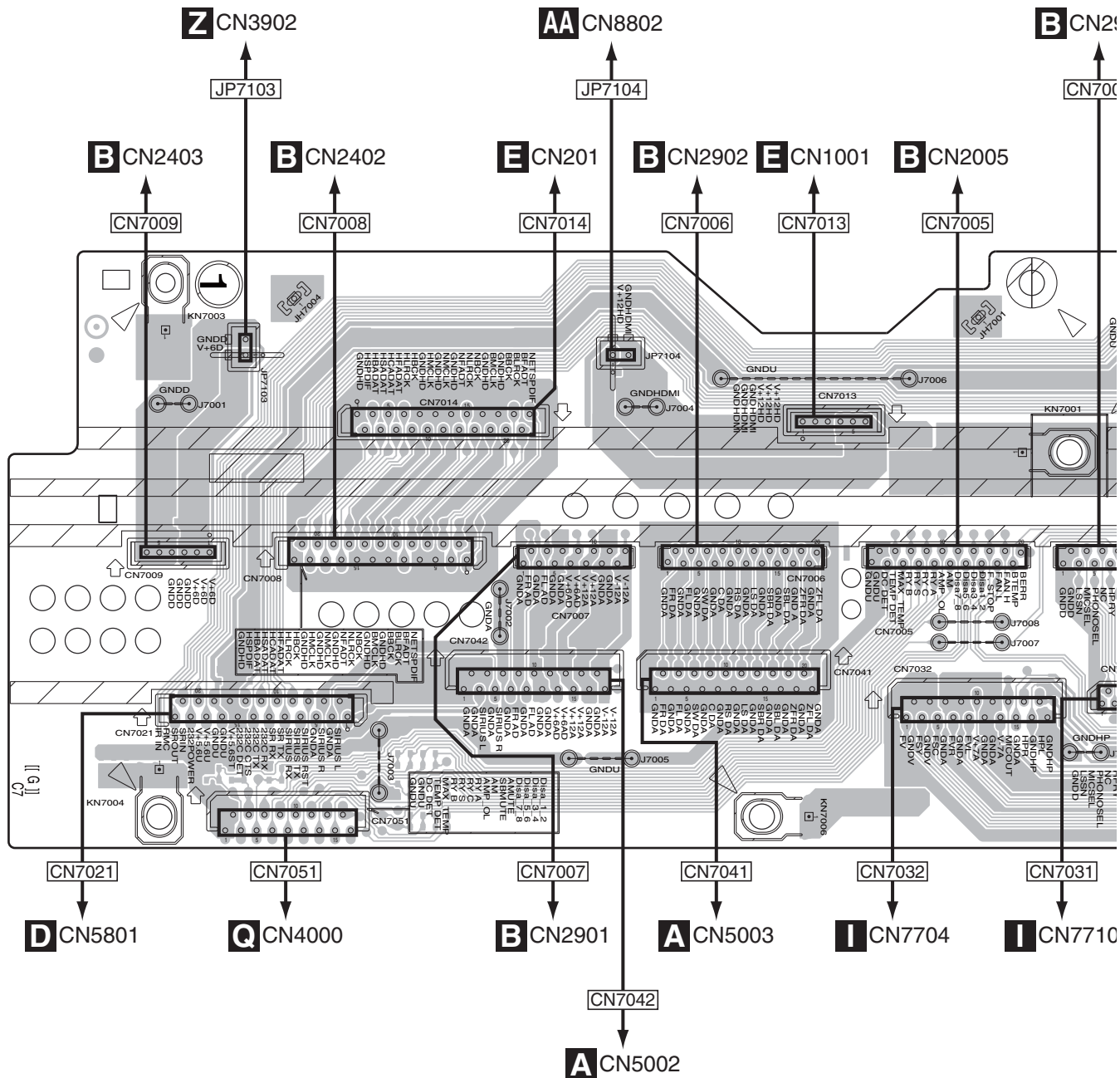
F

F



E

SIDE A

F INTERFACE ASSY

SIDE B

F INTERFACE ASSY

CN7003

CN7004

CN7011

CN7012

CN7101

CN7001

CN7062

CN7002

CN7031

⌈C

SC-LX81

SIDE A**T** CN8711

CN6008

IC Q

IC6007

IC6002

IC6005
IC6008
IC6001
IC6009

IC6015

IC6012

100019

IC6003

10000-1

100010

Q6002	
Q6004	Q6006
Q6007	Q6001

	Q6003	Q6021
		Q6016
	Q6005	Q6020
		Q6015

IC6006	Q6019
	Q6018
	Q6022

Q6008

[illegible][illegible][illegible][illegible]

1

G J

72

SC-LX81

CN6C

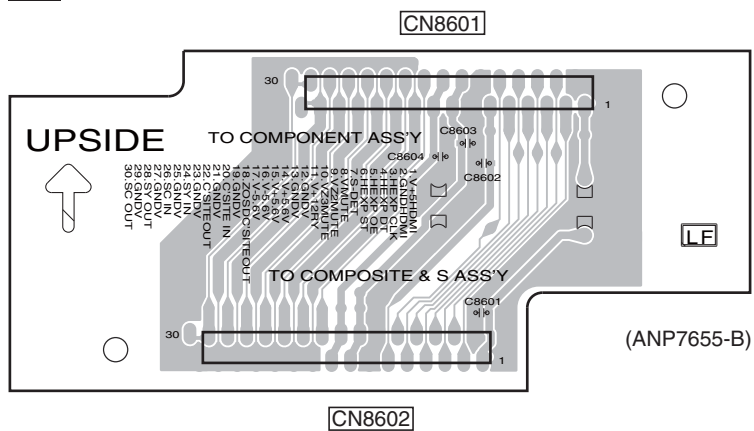


G J

172

SIDE B

A

J V-BRIDGE ASSY

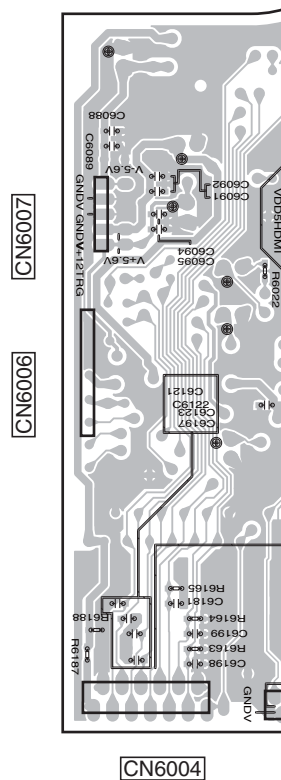
B

C

D

E

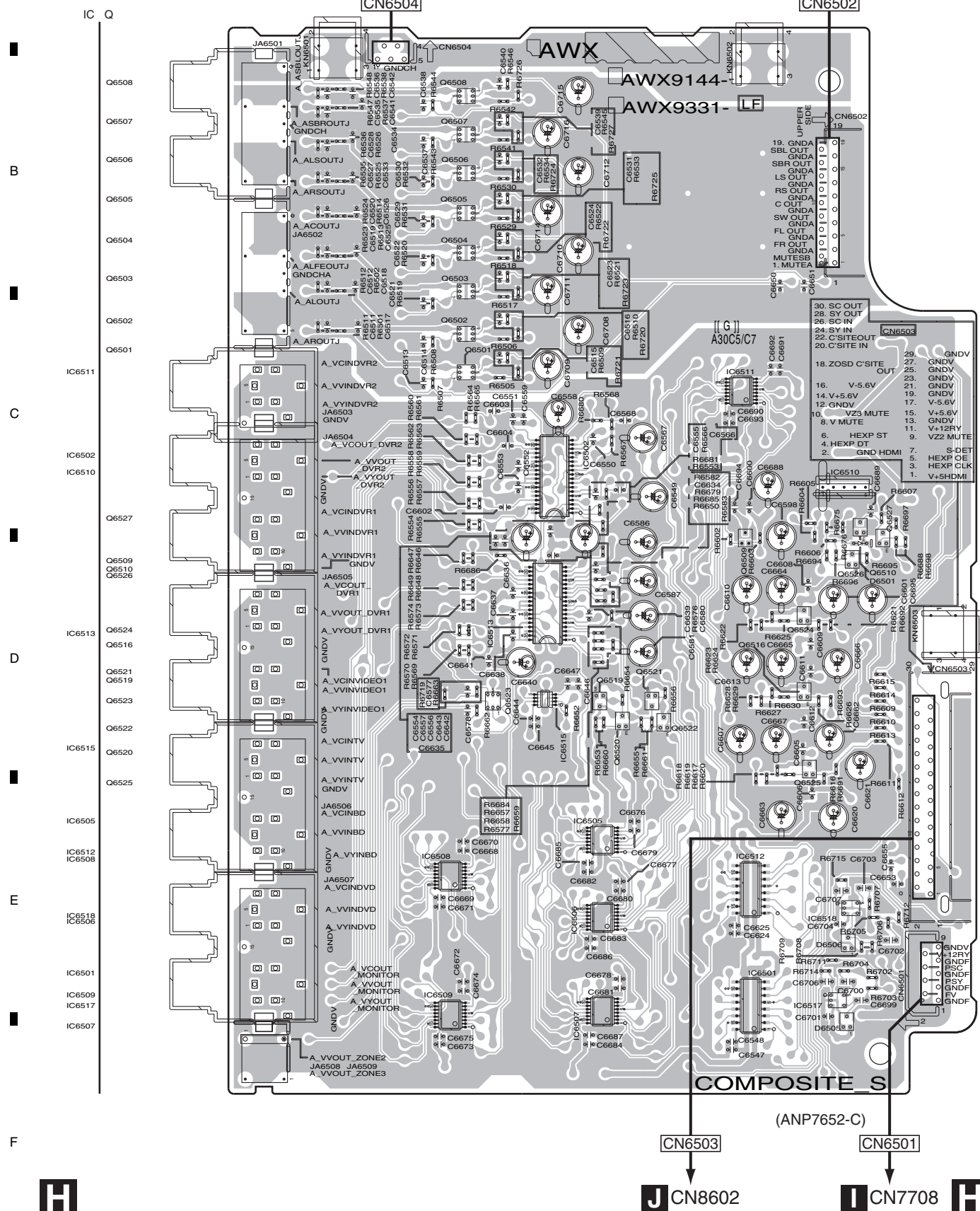
F



SIDE A

H COMPOSITE S ASSY

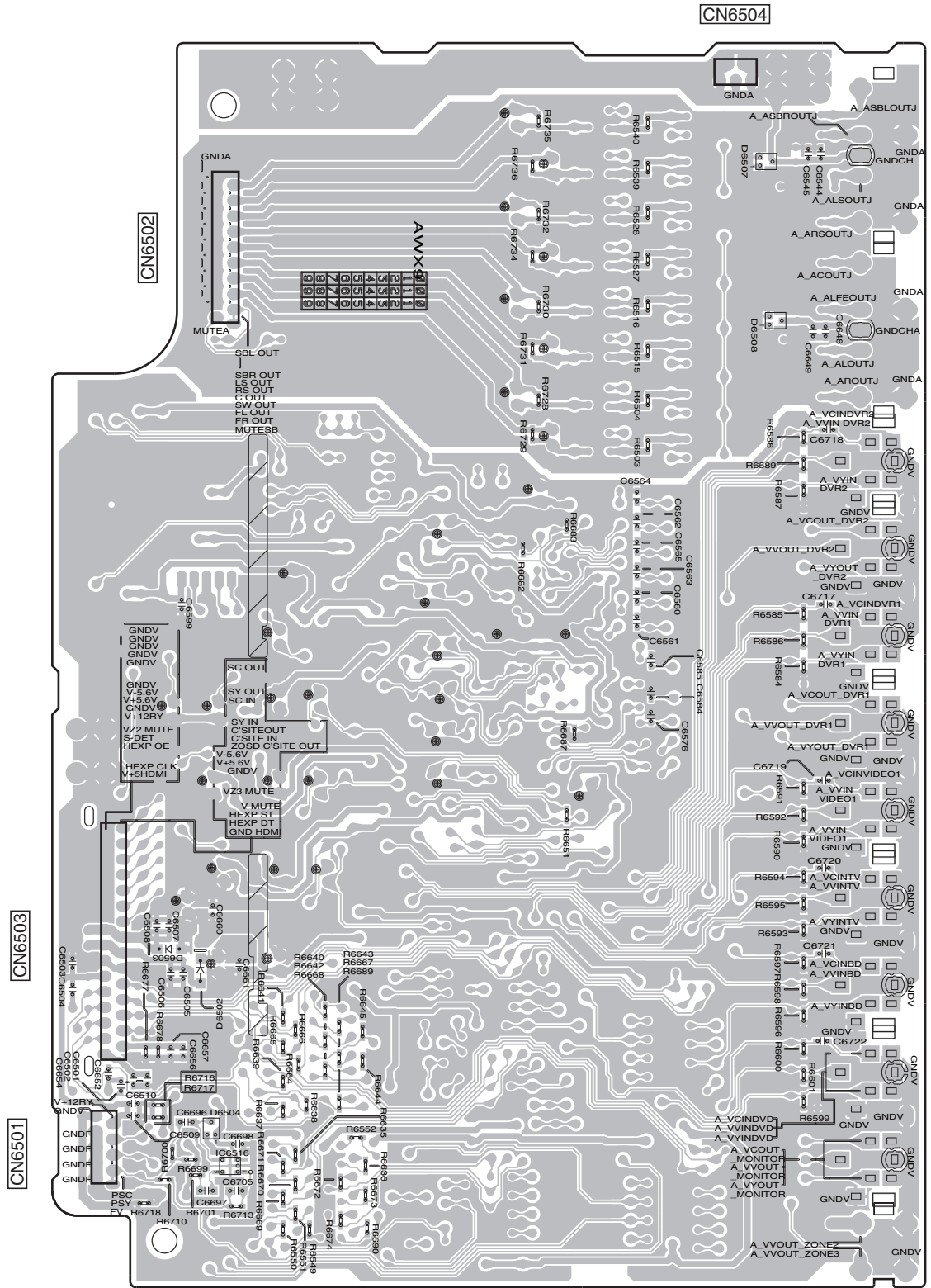
SIDE A



SIDE B

SIDE B

COMPOSITE S ASSY



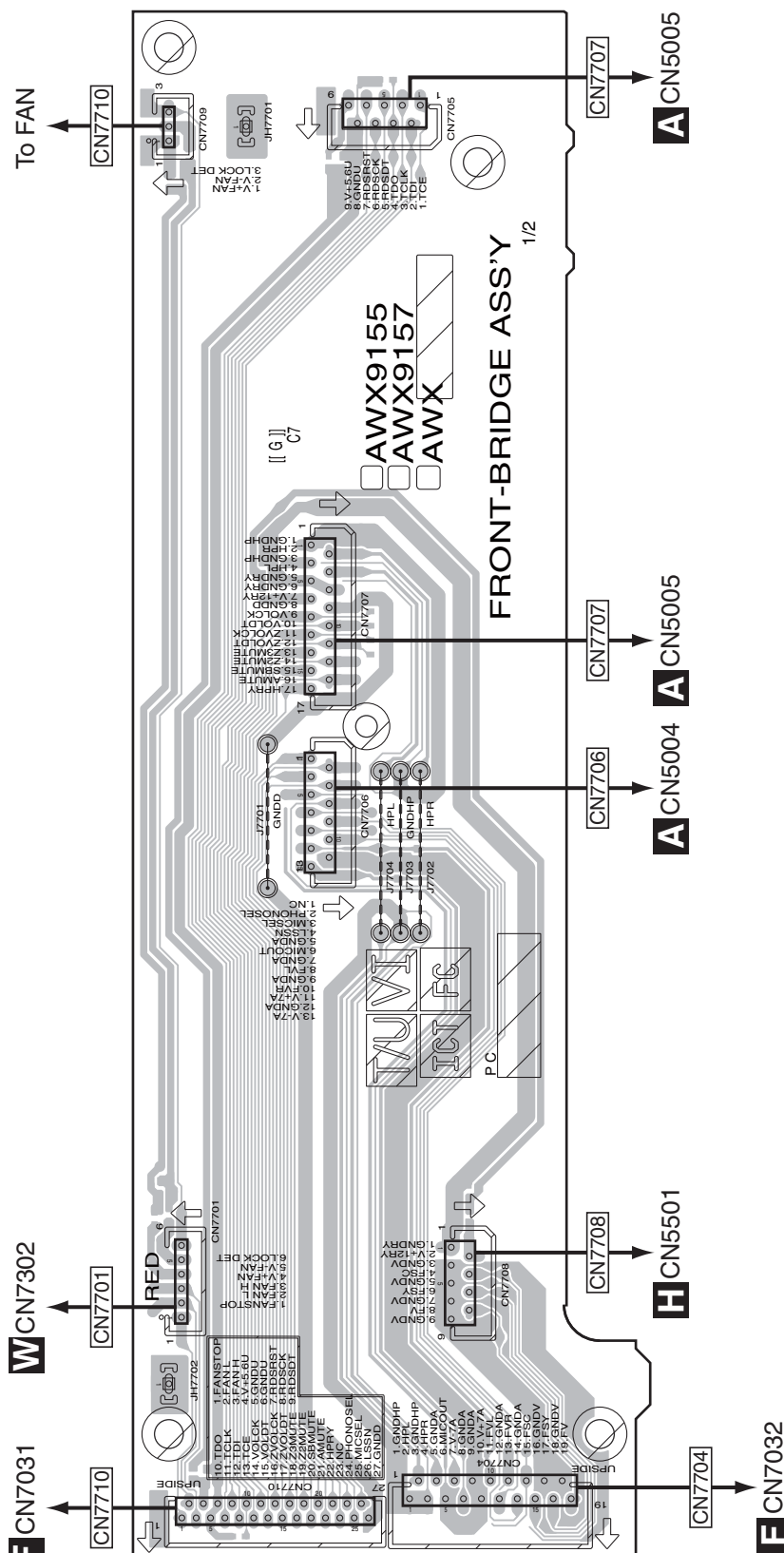
(ANP7652-C)



SC-LX81

177

FRONT BRIDGE ASSY

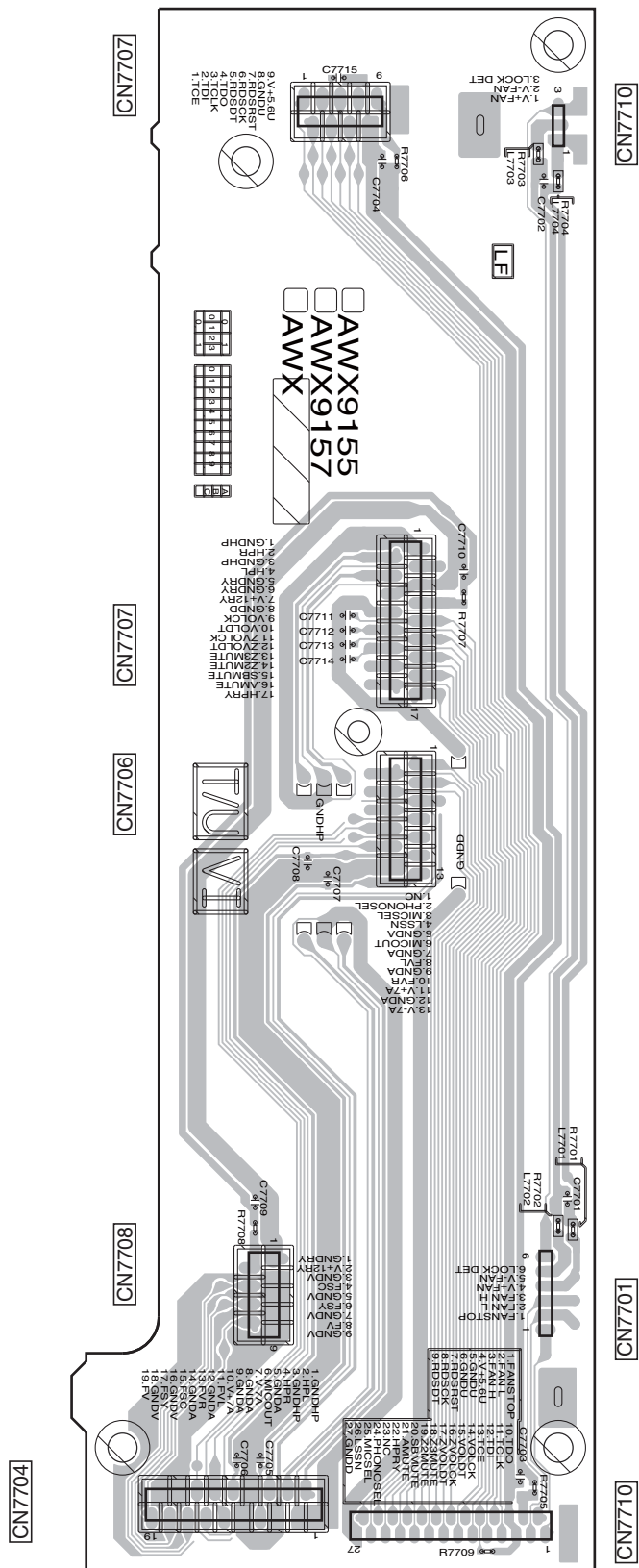


(ANP7654-B)

SIDE B

SIDE B

FRONT BRIDGE ASSY



(ANP7654-B)

SC-LX81

A

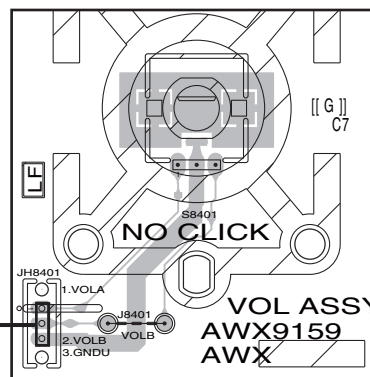
E

9

[

E

F



(ANP7655-B)

SIDE B

K DISPLAY ASSY

IC Q

Q8009

IC8201

Q8010

IC8001

Q8012

Q8004

Q8001
Q800F

Q8005

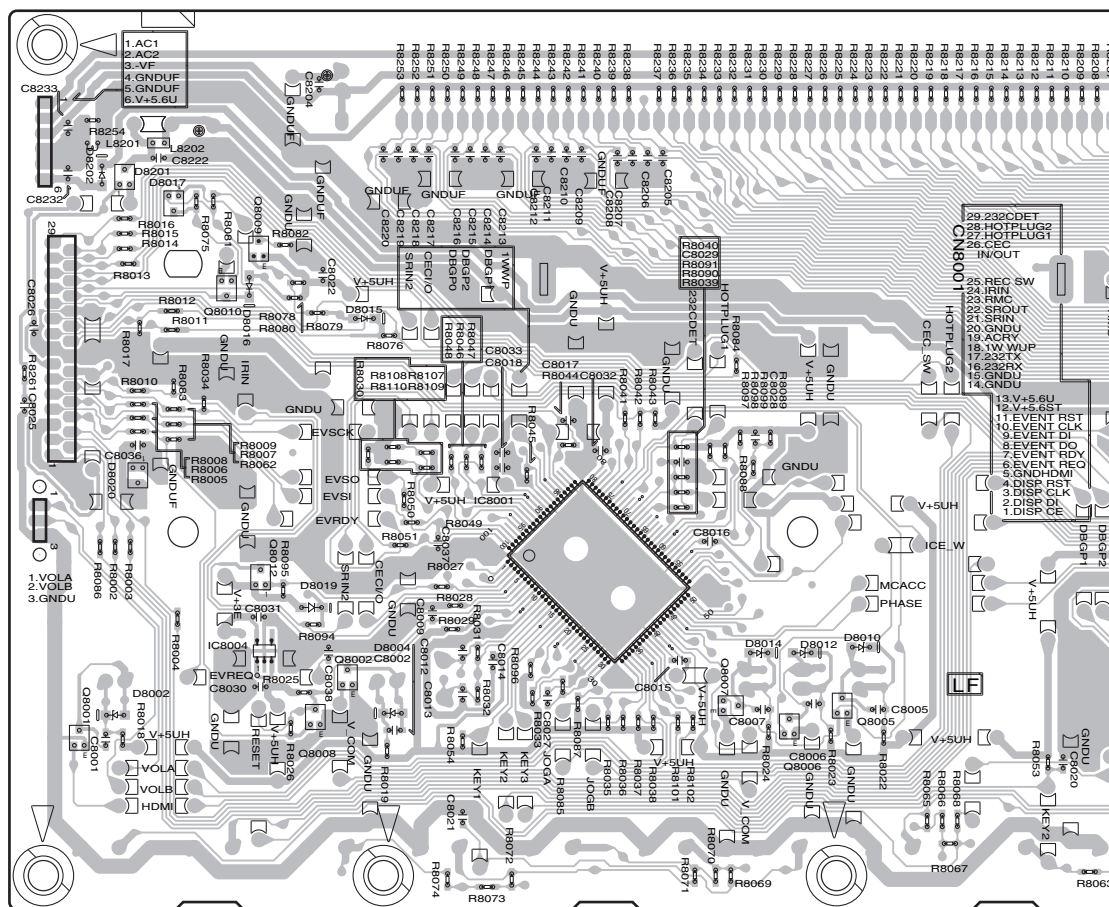
Q8008
Q8006

100

100

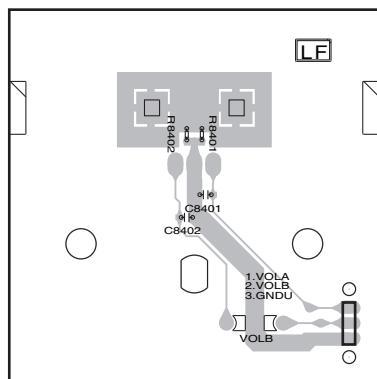
100

100



IC Q

Q8501



(ANP7655-B)

JH8401

SIDE B

A

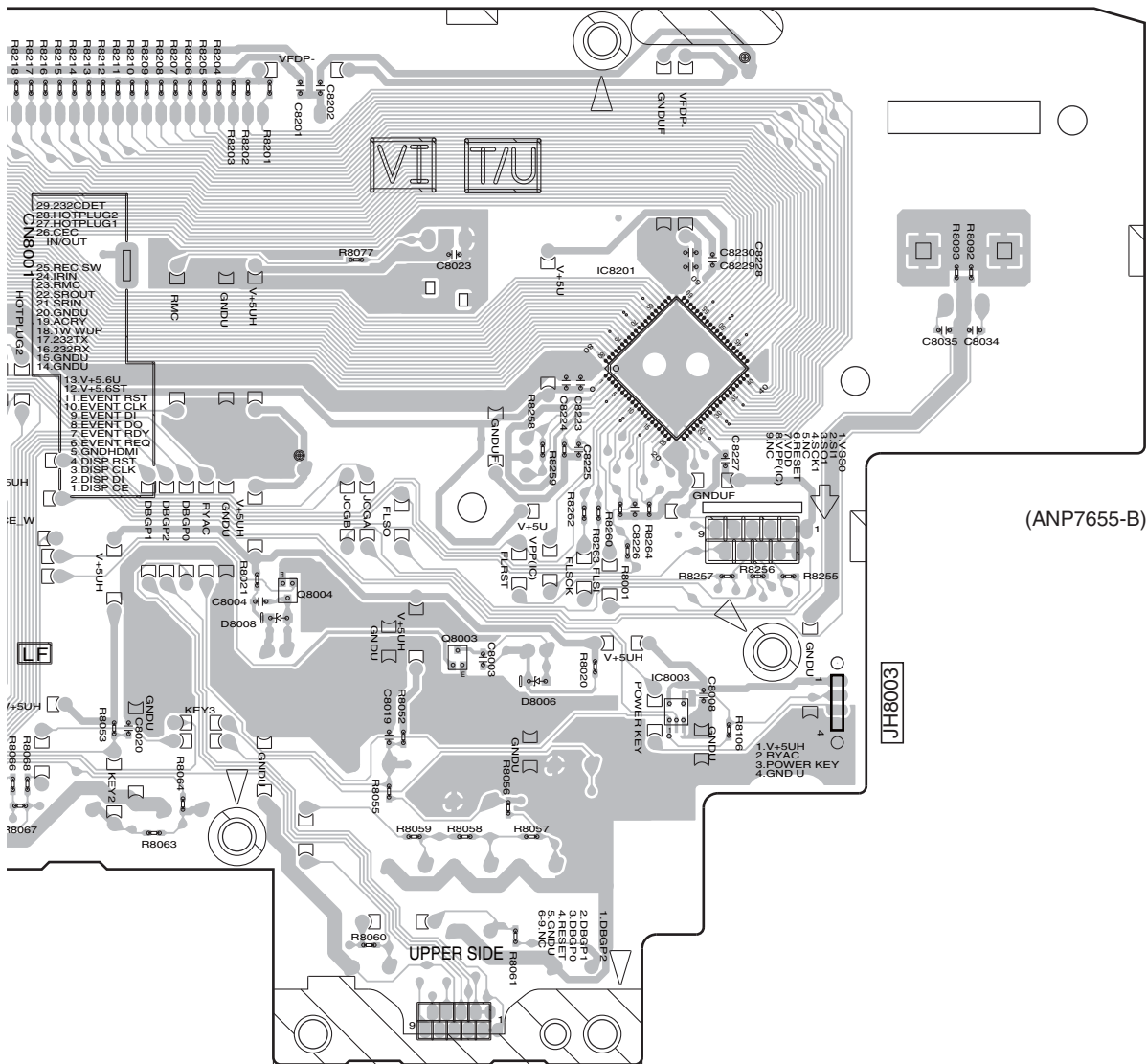
B

C

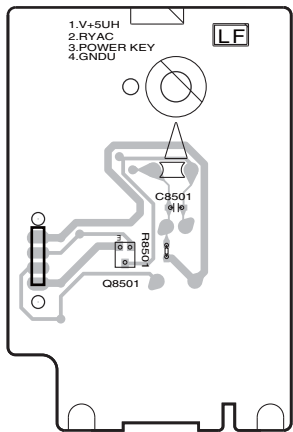
D

E

F



M POWER SW ASSY



L M K

11.11 PRE BRIDGE, ICE BUFFER and ICE SHIELD ASSYS

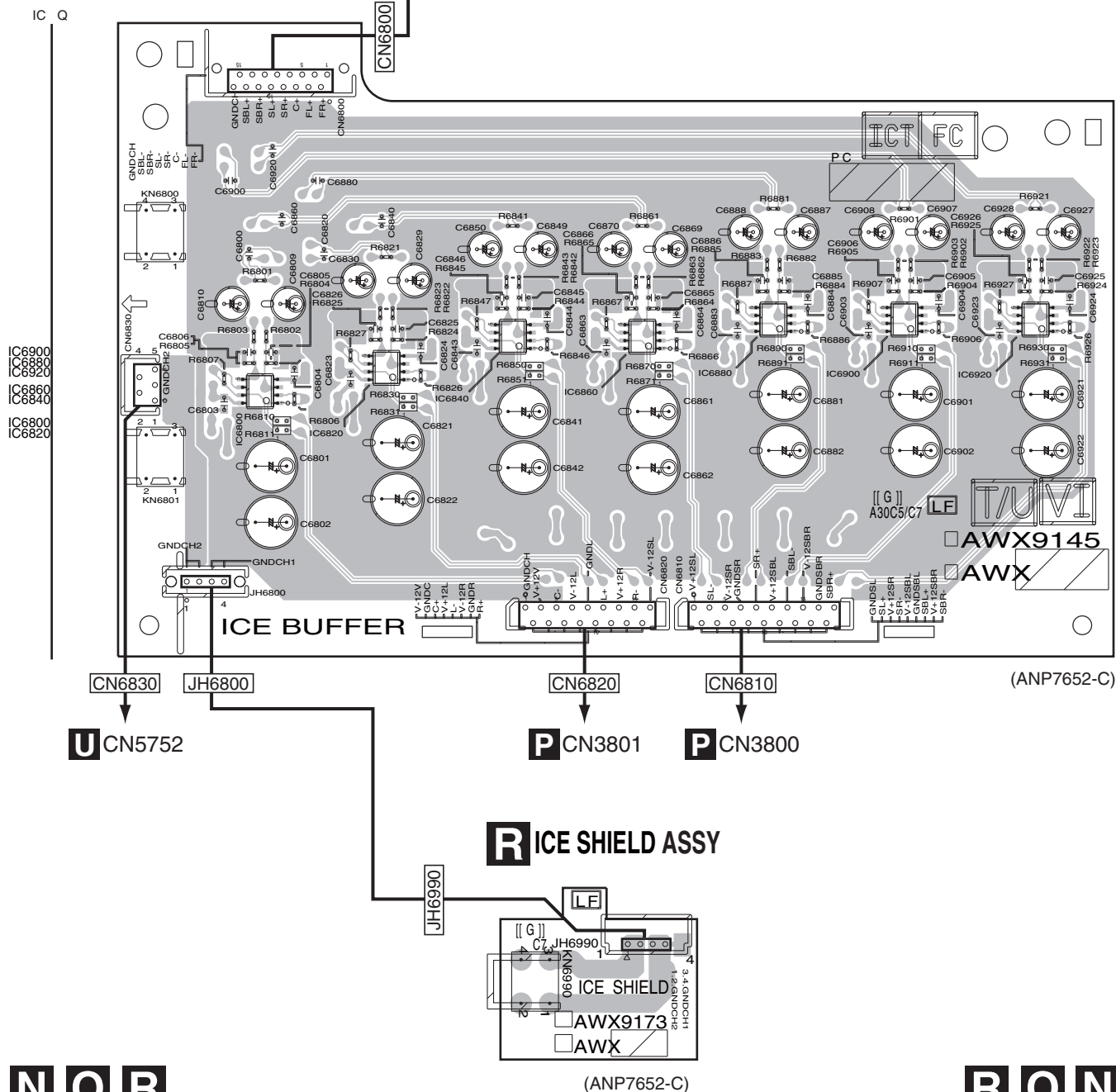
SIDE A

PRE BRIDGE ASSY

SIDE A

ICE BUFFER ASSY

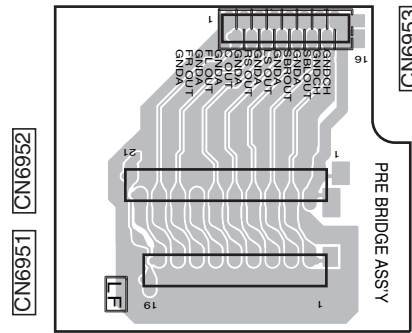
ICE SHIELD ASSY



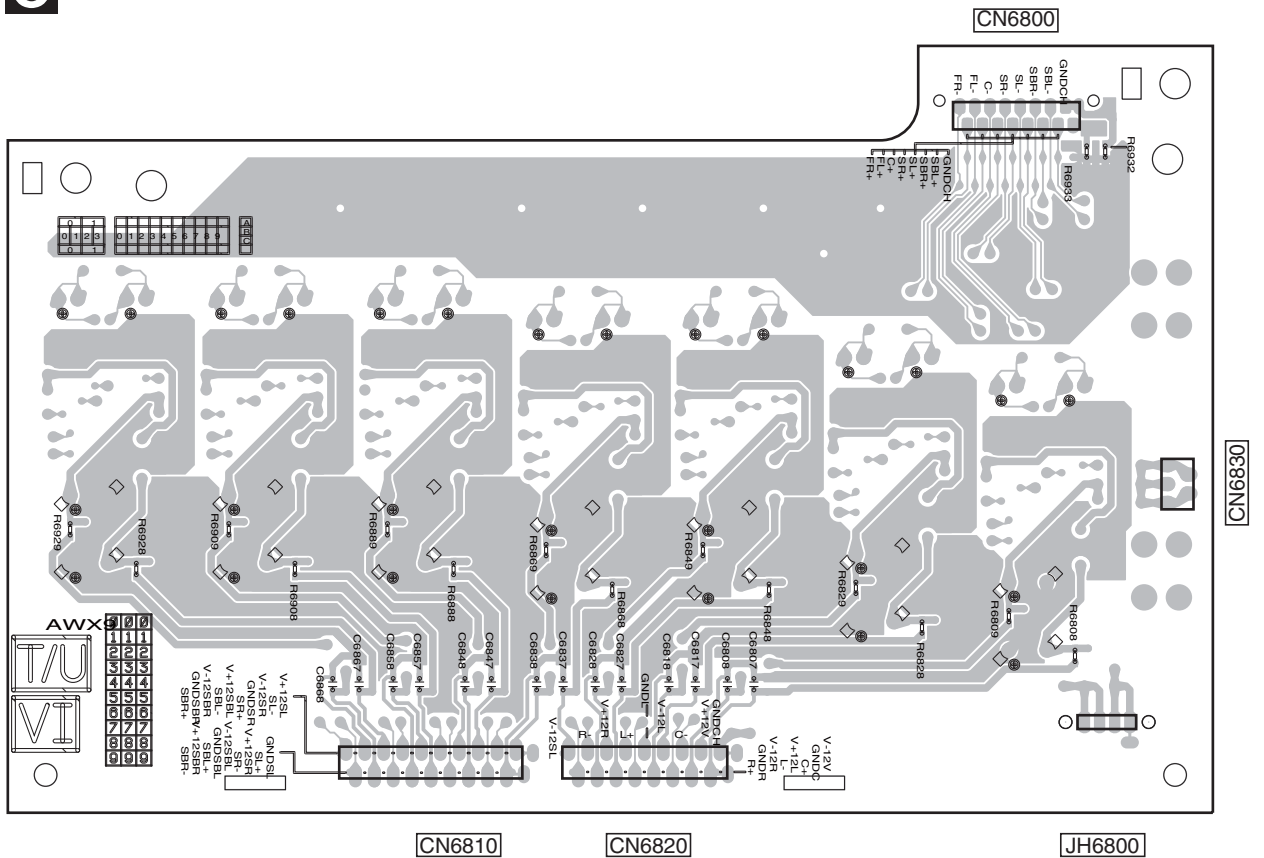
SIDE B

N PRE BRIDGE ASSY

SIDE B

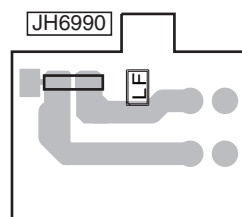


(ANP7652-C)

ICE BUFFER ASSY

(ANP7652-C)

RICE SHIELD ASSY



(ANP7652-C)

N O R

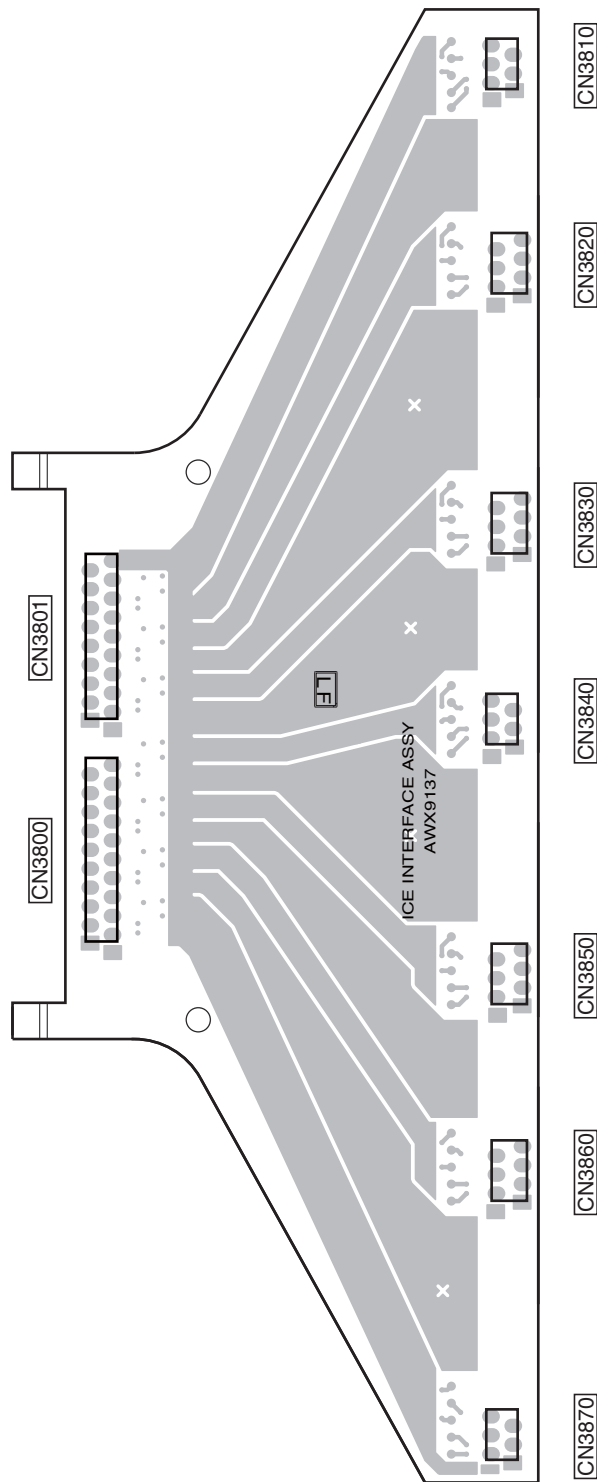
RON



SIDE B

SIDE B

P ICE INTERFACE ASSY



(ANP7649-B)

P

P

SC-LX81

187

SIDE A

Q ICEPOWER AMP ASSY

A

E

C

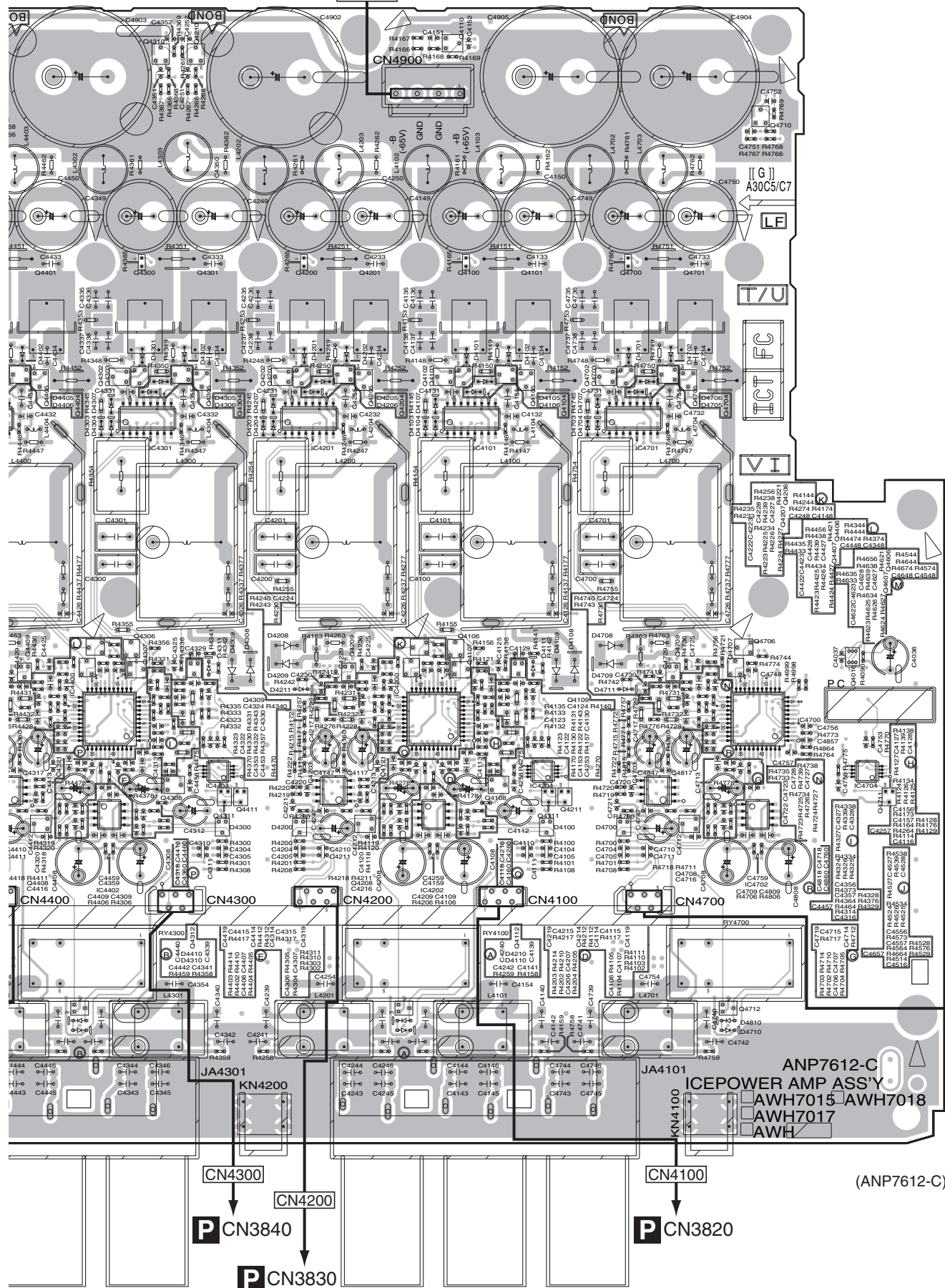
D

E

F

Q

189



(ANP7612-C)

SC-LX81

SIDE B

Q ICEPOWER AMP ASSY

CN4900

IC Q

Q4015

Q4004
Q4007
Q4006
Q4009 Q4011Q4005
Q4008

Q4010

0 1 2 3 4 5 6 7 8 9
0 1 2 3 4 5 6 7 8 9

SC-LX81



SIDE B

A

B

C

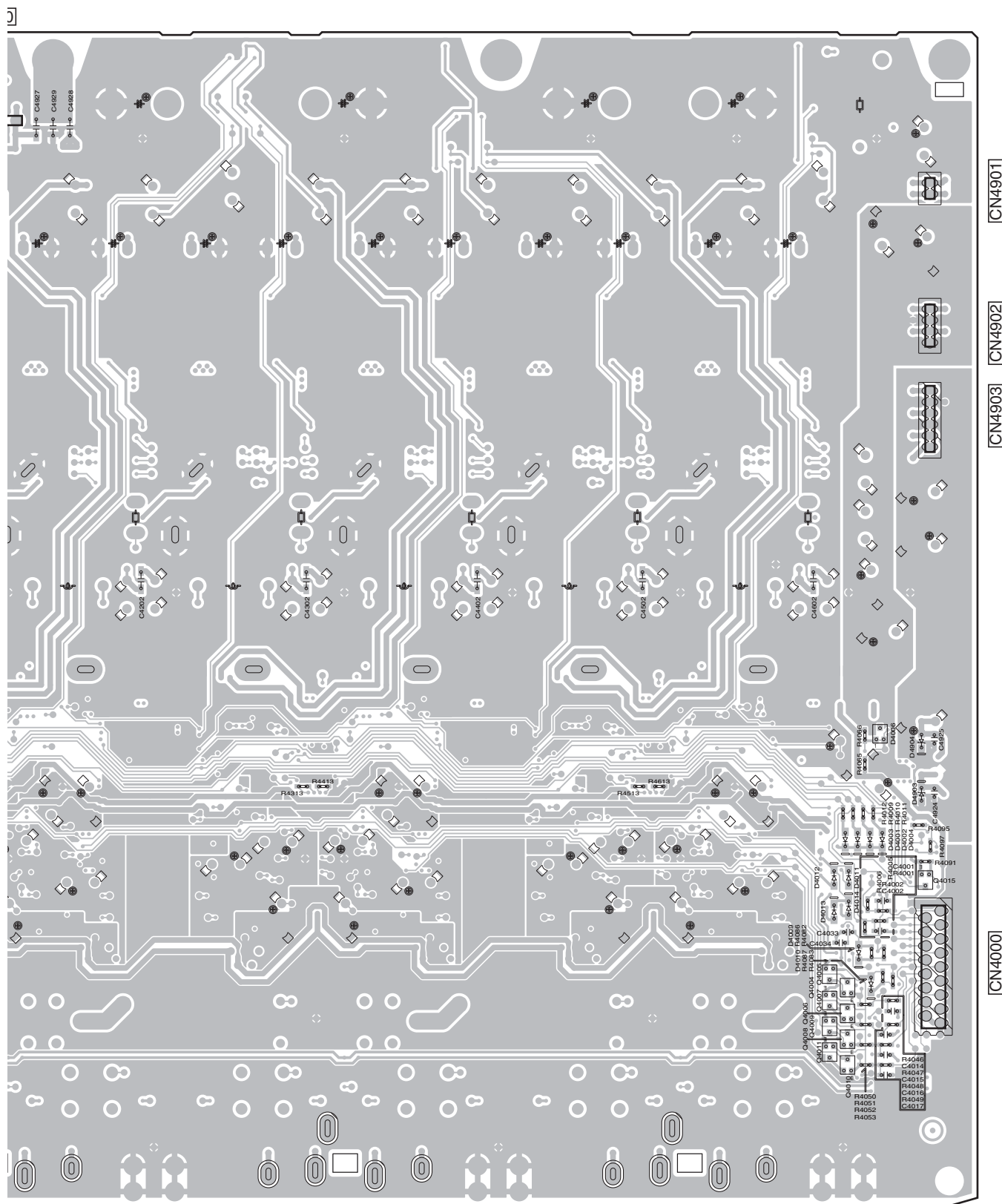
D

F

F

Q

191



(ANP7612-C)

SC-LX81

SIDE A



A



C

D



F

193

SIDE B

A

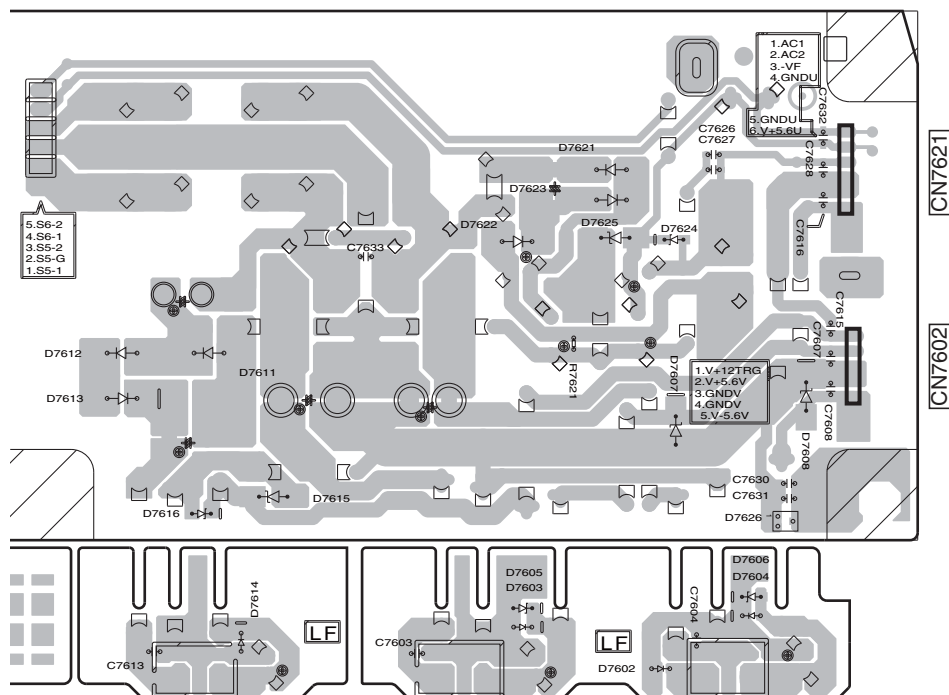
B

C

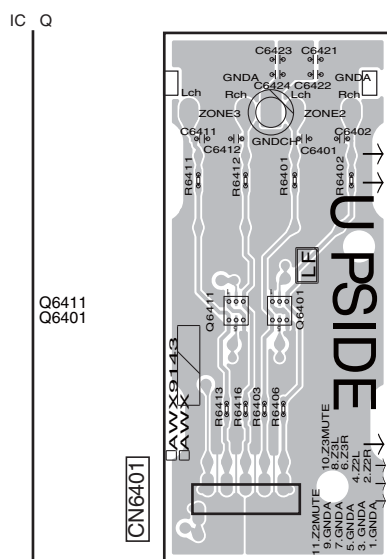
D

F

F



(ANP7654-B)

S ZOUT ASSY

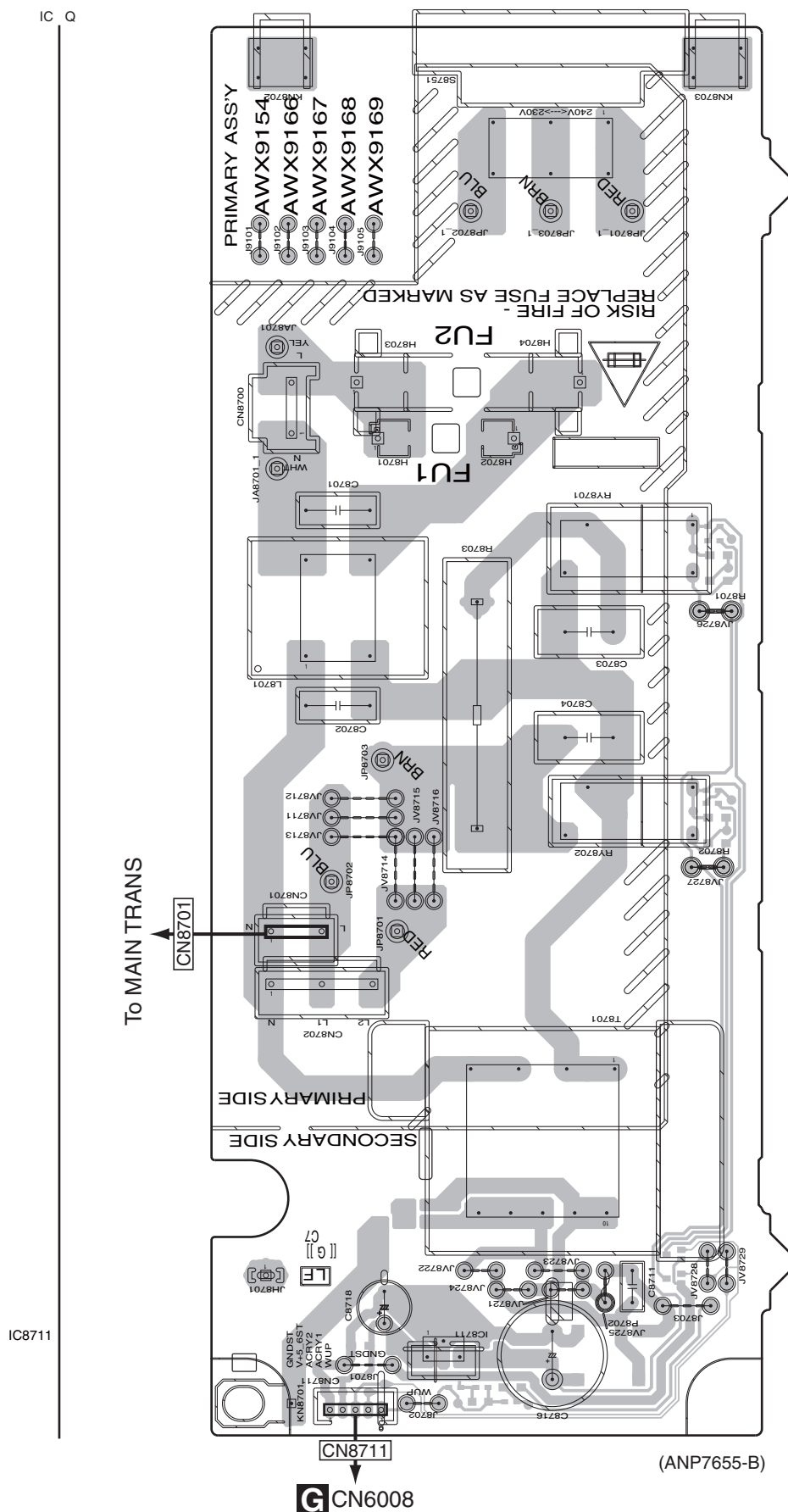
(ANP7651-B)

11.15 PRIMARY ASSY

SIDE A

T PRIMARY ASSY

SIDE A



T

G CN6008

T

SIDE A

SIDE A

Q CN4903

TO MAIN TRANS



198

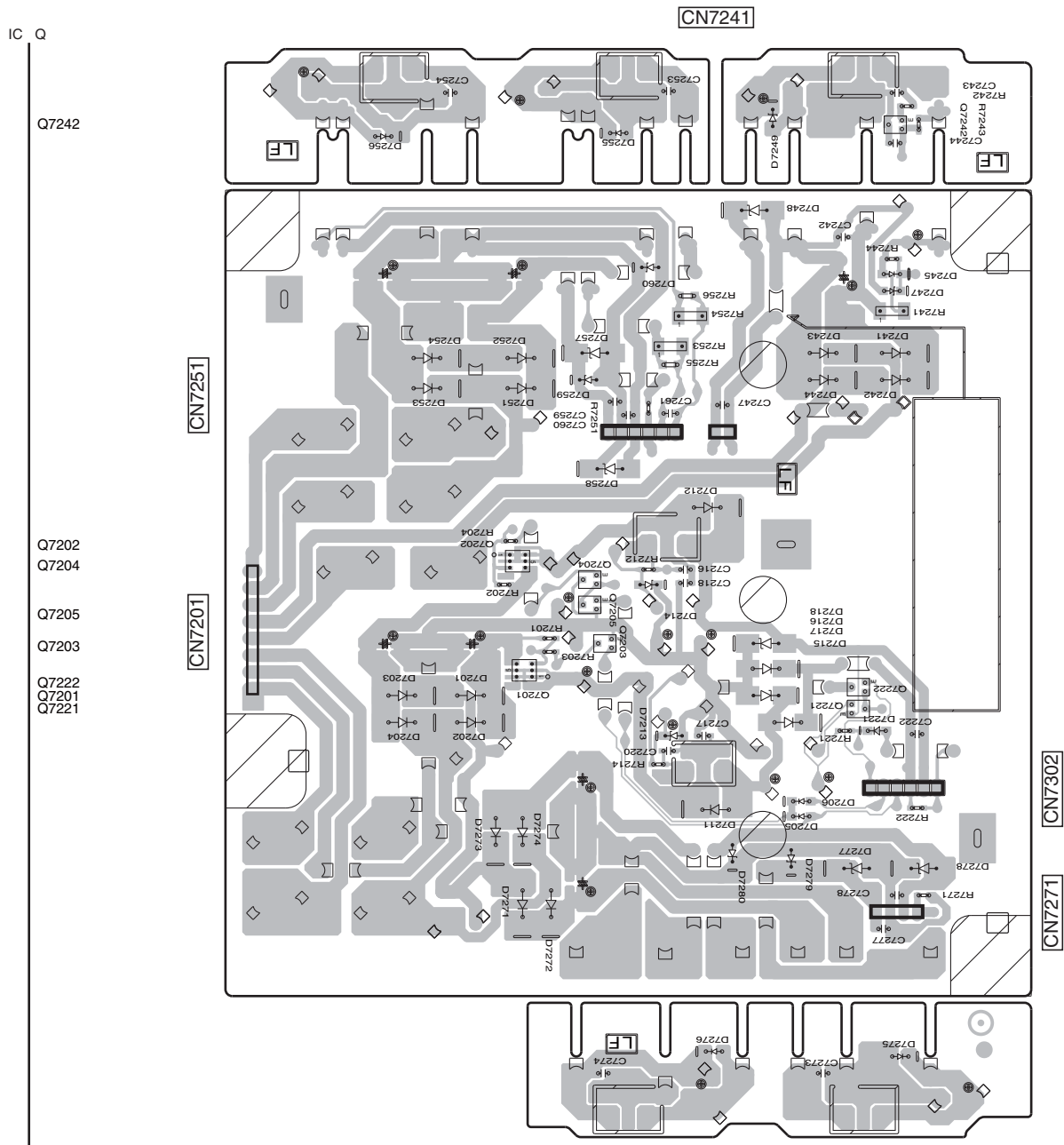
W

SC-LX81

SIDE B

SIDE B

WICE REG ASSY



(ANP7653-B)

11.18 DCDC and HDMI RECT ASSYS

SIDE A

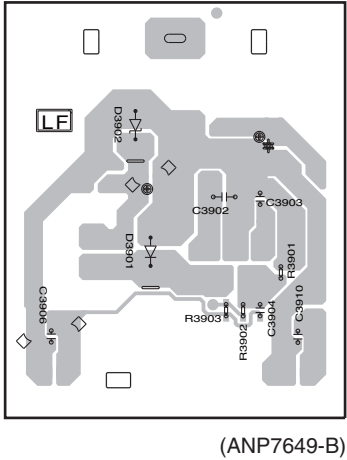
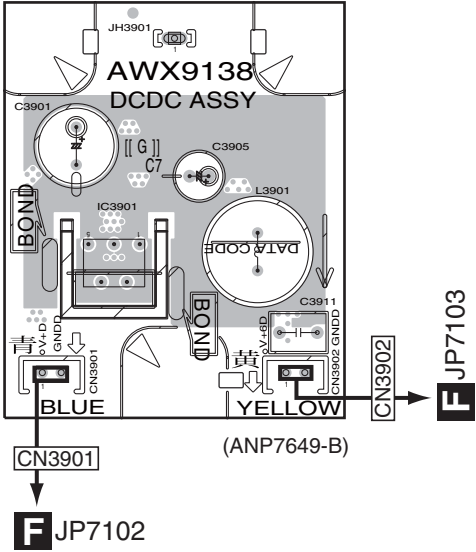
SIDE B

Z DCDC ASSY

Z DCDC ASSY

IC Q

IC3901

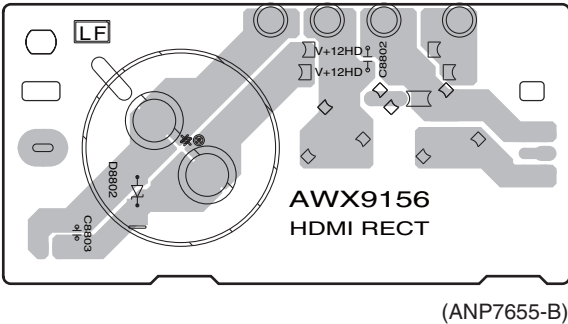
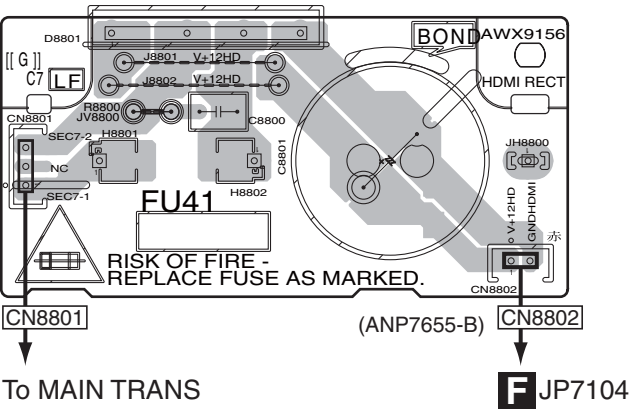


SIDE A

SIDE B

AA HDMI RECT ASSY

AA HDMI RECT ASSY



Z AA

AA Z

12. ELECTRICAL PARTS LIST

NOTES: ● Parts marked by “NSP” are generally unavailable because they are not in our Master Spare Parts List.

● The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47 k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω $\rightarrow$ 56×10^1 $\rightarrow$ 561.....RD1/4PU $\begin{bmatrix} 5 & 6 & 1 \end{bmatrix}$ J

47 k Ω $\rightarrow$ 47×10^3 $\rightarrow$ 473.....RD1/4PU $\begin{bmatrix} 4 & 7 & 3 \end{bmatrix}$ J

0.5 Ω $\rightarrow$ R50.....RN2H $\begin{bmatrix} R & 5 & 0 \end{bmatrix}$ K

1 Ω $\rightarrow$ 1R0.....RS1P $\begin{bmatrix} 1 & R & 0 \end{bmatrix}$ K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62 k Ω $\rightarrow$ 562×10^1 $\rightarrow$ 5621.....RN1/4PC $\begin{bmatrix} 5 & 6 & 2 & 1 \end{bmatrix}$ F

Mark No. Description Part No. LIST OF ASSEMBLIES

	1..ICEPOWER AMP ASSY	AWH7017
NSP	1..COMPOSITE ICE ASSY	AWM8106
	2..COMPOSITE S ASSY	AWX9144
	2..ICE BUFFER ASSY	AWX9145
	2..PRE BRIDGE ASSY	AWX9146
	2..ICE SHIELD ASSY	AWX9173
NSP	1..PRIM DISPLAY ASSY	AWM8120
	2..PRIMARY ASSY	AWX9166
	2..HDMI RECT ASSY	AWX9156
	2..DISPLAY ASSY (SC-LX81)	AWX9158
	2..DISPLAY ASSY (SC-LX71)	AWX9238
	2..VOL ASSY	AWX9159
	2..POWER SW ASSY	AWX9160
	2..V-BRIDGE ASSY	AWX9161
NSP	1..DIGITAL MOTHER ASSY	AWP7058
	2..D-MOTHER ASSY (SC-LX81)	AWX9196
	2..D-MOTHER ASSY (SC-LX71)	AWX9202
	2..ICE INTERFACE ASSY	AWX9137
	2..DCDC ASSY	AWX9138
	2..H GUARD2 ASSY	AWX9147

<u>Mark</u>	<u>No.</u>	<u>Description</u>	<u>Part No.</u>
		2..H GUARD ASSY	AWX9174
NSP	1..COMPONENT FIN ASSY		AWQ7058
	2..COMPONENT ASSY (SC-LX81)		AWX9141
	2..COMPONENT ASSY (SC-LX71)		AWX9211
	2..FRONT IN ASSY		AWX9142
	2..ZOUT ASSY		AWX9143
NSP	1..INTERFACE REG ASSY		AWR7067
	2..INTERFACE ASSY		AWX9148
	2..ICE REG ASSY		AWX9149
	2..B REG ASSY		AWX9150
	2..B DIODE ASSY		AWX9171
NSP	1..FBRIDGE REG ASSY		AWR7068
	2..REG ASSY		AWX9152
	2..FRONT BRIDGE ASSY		AWX9155
NSP	1..AUDIO ASSY		AWR7071
	2..AUDIO ASSY		AWX9206
	2..232C CONTROL ASSY		AWX9209
	2..PRIMARY GUARD ASSY		AWX9172
	1..HDMI NETWORK ASSY (SC-LX81)		AWX9234
	1..HDMI NETWORK ASSY (SC-LX71)		AWX9235
	1..FM/AM TUNER UNIT		AXX7248

CONTRAST OF PCB ASSEMBLIES



COMPONENT ASSY

AWX9141 and AWX9211 are constructed the same except for the following:

Mark	Symbol and Description	AWX9141	AWX9211
	IC6002, IC6004 Multiplexer(4chx2)	TC74LVX4052FT	Not used
	IC6008 Video IC	NJM2581M	Not used
	JA6003 Pin Jack(6p)	AKB7204	Not used
	JA6005 Pin Jack(3p)	Not used	AKB7203
	R6043-R6045	RS1/16S750J	Not used
	R6108	RS1/16S103J	Not used
	C6050, C6051, C6055-C6057	CEAT101M10	Not used
	C6058, C6059, C6148, C6151, C6158, C6161	CKSRYB105K10	Not used
	C6060, C6061, C6149, C6150, C6159, C6160	CCSRCH102J50	Not used
	C6131-C6136	CKSRYB103K50	Not used

**DISPLAY ASSY**

AWX9158 and AWX9238 are constructed the same except for the following:

A

Mark	Symbol and Description	AWX9158	AWX9238
	R8015, R8084	Not used	RS1/16S0R0J

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
				C	5035,5038,5055,5056		CEAT220M50
				C	5043,5044,5113,5114		CCSRCH220J50
				C	5045,5046,5115,5116		CEAT100M50
				C	5051-5054,5071-5074		CCSRCH101J50
				C	5075,5076,5085,5086		CEAT220M50
				C	5081-5084,5091-5094		CCSRCH101J50
				C	5095,5096,5105,5106		CEAT220M50
				C	5101-5104,5111,5112		CCSRCH101J50
				C	5121-5124,5131,5132		CCSRCH101J50
				C	5125,5126,5145,5146		CEAT220M50
				C	5133,5134		CCSRCH220J50
				C	5135,5136,5221,5222		CEAT100M50
				C	5141-5144,5151-5154		CCSRCH101J50
				C	5155,5156,5165,5166		CEAT220M50
				C	5161-5164,5171-5174		CCSRCH101J50
				C	5175,5176,5185,5186		CEAT220M50
				C	5181-5184,5205,5206		CCSRCH101J50
				C	5202,5204		ACH1479
				C	5207,5208		CEAT220M50
				C	5209,5210		CFHXSQ103J16
				C	5223,5224,5227,5228		CEAT2R2M50
				C	5225,5226,5271-5278		CEAT100M50
				C	5231,5233,5411,5412		CEAT470M16
				C	5235,5236,5282,5303		CCSRCH101J50
				C	5265,5266,5285,5286		CKSRYB103K50
				C	5290,5503,5504,5656		CEAT100M50
				C	5301,5302,5305,5306		CKSRYB103K50
				C	5304		CCSRCH101J50
				C	5307,5308		ACH7196
				C	5351,5352,5421,5423		CKSRYB103K50
				C	5356,5357,5508,5510		CCSRCH102J50
				C	5401,5402		CEAT1R0M50
				C	5409,5410		CEAT471M16
				C	5419,5420		CKSRYB105K16
				C	5422,5424		CEAT470M25
				C	5431,5432,5601,5605		CKSRYB103K50
				C	5451,5603,5606		CEAT101M16
				C	5501,5502		CEAT2R2M50
				C	5511,5611,5652		CCSRCH102J50
				C	5602,5708,5710,5712		CKSRYB104K16
				C	5607,5621,5622		CCSRCH100D50
				C	5613		CCSRCH331J50
				C	5651		CEAT101M10
				C	5654,5705		CKSRYB103K50
				C	5655,5657		CCSRCH270J50
				C	5658		CKSRYB472K50
				C	5701,5703,5709,5711		CKSRYB471K50
				C	5702,5704		CKSRYB104K50
				C	5713,5715,5719		CKSRYB471K50
				C	5714,5718		CKSRYB104K16

**AUDIO ASSY****SEMICONDUCTORS**

	IC	5001,5282,5302,5401	NJM4565MD
	IC	5201	BD3473KS2
	IC	5221	BD3814FV
B	IC	5255,5351	TC4053BFN
	IC	5301	TC4066BFN
	IC	5651	LC72725KM
	Q	5269,5301,5351	RT1N241M
	Q	5302	RT1P241M
	Q	5401,5402	2SK208
	Q	5431	IMX25
	Q	5451	RT3T22M
	Q	5453	RT1N140M
	Q	5501	2SD1858X
	Q	5502	2SB1237X
C	Q	5601	2SD1664
	D	5201,5301,5302	1SS302
	D	5401,5402,5451,5452	1SS352
	D	5501,5502	UDZS7R5(B)
	D	5602	UDZS10(B)
	D	5651	1SS352

MISCELLANEOUS

	L	5651 CHIP SOLID INDUCTOR	QTL1013
	JA	5001,5002 PIN JACK(4P)	XKB3017
	JA	5004-5009 PIN JACK(4P)	XKB3017
	RY	5451 RELAY	VSR1017
D	X	5651 CRYSTAL RESONATOR (4.332 MHz)	ASS7004
	CN	5002 CONNECTOR	CKS3384
	CN	5003 CONNECTOR	CKS3386
	CN	5004 13P CONNECTOR	52044-1345
	CN	5005 17P CONNECTOR	52044-1745
	CN	5006 21P SOCKET	XKP3081
	CN	5007 9P CONNECTOR	52044-0945
	CN	5008 11P CONNECTOR	52044-1145
	CN	5009 CONNECTOR	CKS3376
	JH	5001 PCB BINDER	VEF1040
E	JP	5001 5P HOUSING ASSY	ADX7653

RESISTORS

	R	5413,5414	RD1/4MUF330J
		Other Resistors	RS1/16S###J

CAPACITORS

	C	5001,5002,5403,5404	CCSRCH221J50
	C	5003,5004,5017,5018	CEAT100M50
	C	5005,5006,5201,5203	CCSRCH331J50
	C	5007,5008,5019,5020	CEAT470M16
	C	5009,5010,5653	CCSRCH561J50
	C	5011,5012	CKSRYB822K50
	C	5013-5016	CKSRYB122K50
	C	5021,5022,5232,5234	CKSRYB104K16
F	C	5031-5034,5041,5042	CCSRCH101J50

5			6			7			8			
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.					
B D-MOTHER ASSY (SC-LX81)												
SEMICONDUCTORS				MISCELLANEOUS								
IC	2001		PEG489B8	L	2001	CHIP SOLID INDUCTOR	QTL1013				A	
IC	2002,2003,2203,2204		TC4094BFN	L	2002,2003	CHIP SOLID INDUCTOR	ATL7002					
IC	2005		BU4842F	L	2404-2406	CHIP SOLID INDUCTOR	QTL1013					
IC	2006		TC74LCX244FTS1	L	2408,2409	CHIP SOLID INDUCTOR	QTL1013					
IC	2007,2008,2406		TC74VHCT125AFTS1	L	2411-2416	CHIP SOLID INDUCTOR	QTL1013					
IC	2009		TC74VHCT541AFTS1	L	2701	CHIP SOLID INDUCTOR	QTL1013					
⚠ IC	2011,2412		NJM2880U1-33	L	2703-2711	CHIP SOLID INDUCTOR	QTL1013					
IC	2201		PEG396A	L	2713	CHIP SOLID INDUCTOR	QTL1013					
IC	2202		AYW7256	L	2801-2804	CHIP SOLID INDUCTOR	QTL1013					
IC	2205,2211,2408,2409		TC74VHC125FTS1	L	2806-2811	CHIP SOLID INDUCTOR	QTL1013					
IC	2206		TC74VHC32FTS1	L	2951,2952	CHIP SOLID INDUCTOR	QTL1013				B	
IC	2207,2407,2709,2805		TC74VHC08FTS1	L	3051-3054	CHIP SOLID INDUCTOR	QTL1013					
IC	2208		TC74VHCT08AFTS1	L	3081	CHIP SOLID INDUCTOR	QTL1013					
IC	2209		TC74VHC04FTS1	L	3151-3154	CHIP SOLID INDUCTOR	QTL1013					
IC	2210		TC74VHC00FTS1	L	3181	CHIP SOLID INDUCTOR	QTL1013					
IC	2213		TC7SH04FUS1	L	3251-3254	CHIP SOLID INDUCTOR	QTL1013					
IC	2401		AK4114VQ	L	3281	CHIP SOLID INDUCTOR	QTL1013					
IC	2403,2404,2803		TC74LCX157FTS1	L	3351-3354	CHIP SOLID INDUCTOR	QTL1013					
IC	2410,2411,2707		TC7SH08FUS1	L	3381,3451	CHIP SOLID INDUCTOR	QTL1013					
⚠ IC	2413,2983		NJM2845DL1-05	JA	2401	PIN JACK(3P)	AKB7205					
IC	2414		TC74VHC125FTS1	JA	2402-2405	OPT. LINK IN	AKS7001					
IC	2701		DSPA56720AG	JA	2406,2407	OPT. LINK OUT	AKS7002				C	
IC	2702		AYW7234	KN	2001,2201	WRAPPING TERMINAL	VNF1084					
IC	2703		HY57V641620FTP-6	KN	2401	SCREW PLATE	VNE1948					
IC	2704,2705		TC74LCX573FTS1	X	2001	RESONATOR (24.000 MHz)	CSS1716					
⚠ IC	2706		NJM2872BF33	X	2201	CERAMIC RESONATOR (15.7MHz)	ASS7087					
⚠ IC	2710		NJM2846DL3-33	X	2701	CRYSTAL OSCILLATOR (24.576 MHz)	ASS7072					
⚠ IC	2711		PQ1LAX95MSPQ	X	2702	CRYSTAL OSCILLATOR (22.5792 MHz)	ASS7071					
⚠ IC	2712		RP131H101D	CN	2001	16P CONNECTOR	VKN1420					
⚠ IC	2713		NJM2846DL3-25	CN	2002	29P CONNECTOR	VKN1844					
IC	2714		TC7SH32FUS1	CN	2003	22P CONNECTOR	RKN1063					
IC	2801		DSPC56371AF180	CN	2005,2007,2902	PLUG	CKS1764					
IC	2802		PDC168A8	CN	2006	7P SOCKET	XKP3074				D	
IC	2804,2806		TC74LCX08FTS1	CN	2008,2903	PLUG	CKS1761					
IC	2807		TC74VHC126FTS1	CN	2401	PLUG(3P)	KM200NA3					
IC	2808		TC7WH157FU	CN	2402	23P SOCKET	XKP3082					
IC	2901,2902,3401		NJM4565MD	CN	2403	CONNECTOR	CKS3815					
IC	2951		PCM1804DB	CN	2901	PLUG	CKS1758					
⚠ IC	2981		NJM2391DL1-33	JH	2001	PCB BINDER	VEF1040					
⚠ IC	2982		NJM2885DL1-33									
				RESISTORS								
IC	3001,3101,3201,3301		RNB4580F	R	2001-2003,2005-2007		RS1/16S104J					
IC	3051,3151,3251,3351		SRC4190IDB	R	2010-2012,2035,2202		RS1/16S473J					
IC	3052,3152,3252,3352		WM8740SEDS	R	2015,2027,2032,2039		RS1/16S104J					
IC	3053,3153,3253,3353		TC7WH125FU	R	2018,2209		RS1/16S512J				E	
IC	3451		AK4387ET	R	2021,2026,2028,2030		RAB4CQ101J					
Q	2005,2008		RT1N241M	R	2033,2034		RAB4CQ471J					
Q	2006		RT3P22M	R	2036,2049,2207,2214		RAB4CQ101J					
Q	2007		2SA1366	R	2041,2043,2045,2046		RS1/16S104J					
Q	2201		RT1N141M-11	R	2047,3117,3118,3217		RS1/16S474J					
Q	2202		2SA1602A	R	2050,2066,2067,2069		RS1/16S104J					
Q	2203		RT1P431M	R	2072,2103,2105,2107		RAB4CQ473J					
Q	2205,2207,2208		RT1P241M	R	2073		RS1/16S472J					
D	2001,2003,2951,2952		MC2848-11	R	2140,2141,2270,2271		RS1/16S0R0J					
D	2002		RB520S-30	R	2203,2717-2719,2721		RAB4CQ220J					
⚠ D	2004,2005		MC2848-11	R	2210,2237,2466,2467		RS1/16S101J				F	
D	2201		1SS357	R	2211,2217,2229,2230		RS1/16S473J					
D	2701-2704		1SR154-400	R	2216,2218,2223,2226		RAB4CQ101J					

Mark No. Description**Part No.****Mark No. Description****Part No.**

R 2233,2235,2246
R 2234,2425,2730,2812
R 2241

RS1/16S473J
RAB4CQ101J
RAB4CQ473J

C 2016,2047,3001,3002
C 2017,2018,2020-2022

CCSRCH102J50
CKSRYB104K16

R 2255
R 2401-2403
R 2404-2406,2901-2904
R 2423
R 2604,3017,3018,3051

RS1/16S104J
RS1/16S750J
RS1/16S220J
RS1/16SS1802F
RS1/16SOR0J

C 2019,2026,2211-2215
C 2024,2029,2031,2038
C 2025
C 2027,2454,2457,2762
C 2028

CKSSYB104K10
CKSRYB104K16
CEAT331M10
CKSQYB225K10
CKSRYB473K50

R 2714,2905,2906,2909
R 2715,2746,2802
R 2722,2761,2762,2765
R 2747,2803
R 2759,2760,2763,2764

RS1/16S103J
RAB4CQ470J
RAB4CQ220J
RAB4CQ103J
RAB4CQ221J

C 2037,2929,2952,2984
C 2041,2046,2209,2210
C 2050-2054,2056-2065
C 2201,2426,2827
C 2202,2204,2205,2208

CEHAZL101M25
CKSRYB104K16
CCSSCH100D50
ACH7272
CCSSCH471J16

R 2766
R 2789
R 2790
R 2791
R 2795,2796

RAB4CQ220J
RS1/16SS1000F
RS1/16SS1202F
RS1/10SOR0J
RS1/16S101J

C 2206,2965,3052,3071
C 2216
C 2217,2227,2402,2404
C 2222,2224-2226,2228
C 2230,2414,2421,2425

CCSRCH471J50
CEAT102M10
CKSRYB104K16
CKSSYB104K10
CKSSYB104K10

R 2822,3455
R 2907,2908,2911,2912
R 2910
R 2913-2918,3108,3116
R 2919,2920

RAB4CQ101J
RS1/16S682J
RS1/16S103J
RS1/16S392J
RS1/16S822J

C 2406-2413,2417,2450
C 2415,2431,2433,2437
C 2416,2419,2422,2458
C 2418,2420,2424,2747
C 2423

CKSRYB104K16
CKSSYB471K50
CEHAZL101M10
CCSSCH471J16
CKSRYB474K10

R 2921,2922
R 3001,3002,3009,3010
R 3003-3006,3011-3014
R 3007,3008,3015,3016
R 3021,3022,3119,3120

RS1/16S911J
RS1/16S181J
RS1/16S222J
RS1/16S202J
RS1/16S221J

C 2430,2432,2436,2438
C 2439,2447,2449,2462
C 2440,2448,2452,2461
C 2451,2785
C 2453,2456,2780,2901

CKSSYB104K10
CKSSYB471K50
CKSSYB104K10
ACH7273
CKSRYB104K16

R 3101,3109,3201,3202
R 3102,3110
R 3103-3106,3203-3206
R 3107,3112,3114,3115
R 3111,3113,3211-3214

RS1/16S681J
RS1/16S181J
RS1/16S222J
RS1/16S122J
RS1/16S272J

C 2455,2732,2781,2783
C 2463,2701,2703,2704
C 2464,2702,2705,2708
C 2706,2707,2709,2711
C 2710,2712,2714,2718

CEHAZL221M10
CKSSYB471K50
CKSSYB104K10
CKSSYB471K50
CKSSYB104K10

R 3151,3251,3351,3456
R 3207,3208,3215,3216
R 3209,3210,3301,3302
R 3218,3317,3318,3413
R 3219,3220,3319,3320

RS1/16SOR0J
RS1/16S122J
RS1/16S681J
RS1/16S474J
RS1/16S221J

C 2713,2715-2717,2719
C 2720,2723,2725,2728
C 2721,2722,2724,2726
C 2727,2729,2736,2743
C 2730,2734

CKSSYB471K50
CKSSYB104K10
CKSSYB471K50
CKSSYB471K50
CKSQYB474K25

R 3303-3306
R 3307,3308,3315,3316
R 3309,3310
R 3311-3314
R 3401,3402

RS1/16S222J
RS1/16S122J
RS1/16S681J
RS1/16S272J
RS1/16S223J

C 2731
C 2733
C 2735,2779,2851,2852
C 2737,2744,2746,2756
C 2745,2769,2772,2801

CKSQYB225K16
ACH7203
CKSQYB475K10
CKSSYB104K10
CKSSYB471K50

R 3403,3404
R 3405,3406,3409,3410
R 3407,3408
R 3411,3412
R 3414

RS1/16S302J
RS1/16S332J
RS1/16S392J
RS1/16S221J
RS1/16S474J

C 2748,2750,2751,2753
C 2749,2752,2754
C 2755,2791,2796
C 2757,2759,2764,2766
C 2758,2760,2761,2763

CKSSYB105K6R3
CCSSCH102J50
CKSSYB105K6R3
CCSSCH471J16
CKSSYB104K10

R 3458
Other Resistors

RS1/16S4R7J
RS1/16SS###J

C 2765,2770,2771
C 2773-2776,2786-2790
C 2777,2778,2991,2993
C 2782,2956,2957,3061
C 2784,3065,3165,3265

CKSSYB104K10
CKSSYB104K10
CKSQYB225K10
ACH7211
CEHAZL221M10

CAPACITORS

C 2001,2040,3060,3068
C 2002,2004,2006,2011
C 2003,2014,2015,2039
C 2005,2007,2030,2032
C 2008,2738,2817

CKSRYB105K16
CKSRYB104K16
CKSRYB471K50
CKSRYB102K50
CKSSYB103K16

C 2792-2795
C 2797,2798,2800,2802
C 2799
C 2803,2805,2807,2809
C 2804,2806,2808,2810

CCSSCH102J50
CKSSYB104K10
VCH1234
CKSSYB471K50
CKSSYB104K10

C 2009
C 2012
C 2013,2220,2221,2954

ACH7298
CKSRYB472K50
CKSRYB103K50

C 2811,2813,2815,2818
C 2812,2814,2816,2819

CKSSYB471K50
CKSSYB104K10

5		6		7		8	
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	C	2820,2822,2824,2831	CKSSYB471K50	B	D-MOTHER ASSY (SC-LX71)		
	C	2821,2823,2825,2829	CKSSYB104K10		SEMICONDUCTORS		
	C	2826,3055,3063,3155	ACH7268		IC	2001	PEG489B8
	C	2830,2832,2834,2836	CKSSYB104K10		IC	2002,2003,2203,2204	TC4094BFN
	C	2833,2835,2837,2838	CKSSYB471K50		IC	2005	BU4842F
	C	2839,2840,3081,3181	CKSSYB104K10		IC	2006	TC74LCX244FTS1
	C	2841,3082,3182,3282	CKSSYB471K50		IC	2007,2008,2406	TC74VHCT125AFTS1
	C	2902,2928,2953,2955	CKSRYB104K16		IC	2009	TC74VHCT541AFTS1
	C	2903,2904	DCH1201		⚠ IC	2011,2412	NJM2880U1-33
	C	2905-2908,3109,3110	ACH7196		IC	2201	PEG396A
	C	2911,2912,2915,2916	CFHXSQ103J16		IC	2202	AYW7256
	C	2913,2914	CCSRCH101J50		IC	2205,2211,2408,2409	TC74VHC125FTS1
	C	2958,2961-2963,2966	CKSRYB104K16		IC	2206	TC74VHC32FTS1
	C	2959,2964,3059,3070	CKSRYB103K50		IC	2207,2407,2709,2805	TC74VHC08FTS1
	C	2960,2981,2990,2995	CEHAZL101M10		IC	2208	TC74VHCT08AFTS1
	C	2983,2992,2994,3053	CKSRYB104K16		IC	2209	TC74VHC04FTS1
	C	2987	CEHAZL101M25		IC	2210	TC74VHC00FTS1
	C	2996,2997,3007,3008	CFHXSQ103J16		IC	2213	TC7SH04FUS1
	C	3003-3006,3103,3105	CCSRCH331J50		IC	2401	AK4114VQ
	C	3013,3014,3113,3114	CFHXSQ472J16		IC	2403,2404,2803	TC74LCX157FTS1
	C	3051,3151,3251,3351	CEHAZL101M10		IC	2410,2411,2707	TC7SH08FUS1
	C	3056,3058,3062,3064	CKSRYB104K16	⚠ IC	2413,2983		NJM2845DL1-05
	C	3057,3075,3101,3102	CCSRCH102J50		IC	2414	TC74VHC125FTS1
	C	3066,3072,3153,3156	CKSRYB104K16		IC	2701	DSPA56720AG
	C	3067,3161,3167,3261	ACH7211		IC	2702	AYW7234
	C	3104,3106	CCSRCH271J50		IC	2703	HY57V641620FTP-6
	C	3107,3108,3207,3208	CFHXSQ103J16		IC	2704,2705	TC74LCX573FTS1
	C	3152,3171,3252,3271	CCSRCH471J50	⚠ IC	2706		NJM2872BF33
	C	3157,3175,3201,3202	CCSRCH102J50	⚠ IC	2710		NJM2846DL3-33
	C	3158,3162,3164,3166	CKSRYB104K16	⚠ IC	2711		PQ1LAX95MSPQ
	C	3159,3170,3259,3270	CKSRYB103K50	⚠ IC	2712		RP131H101D
	C	3160,3168,3260,3268	CKSRYB105K16	⚠ IC	2713		NJM2846DL3-25
	C	3163,3255,3263,3355	ACH7268		IC	2714	TC7SH32FUS1
	C	3172,3253,3256,3258	CKSRYB104K16		IC	2801	DSPC56371AF180
	C	3203-3206,3303-3306	CCSRCH331J50		IC	2802	PDC168A8
	C	3209,3210,3309,3310	ACH7196		IC	2804,2806	TC74LCX08FTS1
	C	3213,3214,3313,3314	CFHXSQ472J16		IC	2807	TC74VHC126FTS1
	C	3257,3275,3301,3302	CCSRCH102J50		IC	2901,2902,3401	NJM4565MD
	C	3262,3264,3266,3272	CKSRYB104K16		IC	2951	PCM1804DB
	C	3267,3361,3367	ACH7211	⚠ IC	2981		NJM2391DL1-33
	C	3281,3381,3461	CKSSYB104K10		IC	3001,3101,3201,3301	RNB4580F
	C	3307,3308	CFHXSQ103J16		IC	3052,3152,3252,3352	WM8740SEDS
	C	3352,3371,3405,3406	CCSRCH471J50		IC	3451	AK4387ET
	C	3353,3356,3358,3362	CKSRYB104K16		Q	2005,2008	RT1N241M
	C	3357,3375	CCSRCH102J50		Q	2006	RT3P22M
	C	3359,3370,3456,3458	CKSRYB103K50		Q	2007	2SA1366
	C	3360,3368	CKSRYB105K16		Q	2201	RT1N141M-11
	C	3363	ACH7268		Q	2202	2SA1602A
	C	3364,3366,3372,3452	CKSRYB104K16		Q	2203	RT1P431M
	C	3365	CEHAZL221M10		Q	2205,2207,2208	RT1P241M
	C	3382	CKSSYB471K50		D	2001,2003,2951,2952	MC2848-11
	C	3401,3402	CEAT220M50		D	2002	RB520S-30
	C	3403,3404	CCSRCH391J50	⚠ D	2004,2005		MC2848-11
	C	3407,3408	CKSRYB104K25		D	2201	1SS357
	C	3409,3410	CEAT100M50		D	2701-2704	1SR154-400
	C	3453,3454	CEAT470M16		D	2953,2954	MC2846-11
	C	3455,3457,3460	CKSRYB104K16		MISCELLANEOUS		
	C	3459	CCSRCH471J50		L	2001 CHIP SOLID INDUCTOR	QTL1013
					L	2002,2003 CHIP SOLID INDUCTOR	ATL7002

Mark No. Description**Part No.****Mark No. Description****Part No.**

A

L 2404-2406 CHIP SOLID INDUCTOR
 L 2408,2409 CHIP SOLID INDUCTOR
 L 2411-2416 CHIP SOLID INDUCTOR

 L 2701 CHIP SOLID INDUCTOR
 L 2703-2711 CHIP SOLID INDUCTOR
 L 2713 CHIP SOLID INDUCTOR
 L 2801-2804 CHIP SOLID INDUCTOR
 L 2806-2810 CHIP SOLID INDUCTOR

QTL1013
 QTL1013
 QTL1013

 QTL1013
 QTL1013
 QTL1013
 QTL1013
 QTL1013

R 2604,3017,3018,3065

 R 2714,2905,2906,2909
 R 2715,2746,2802
 R 2722,2761,2762,2765
 R 2747,2803
 R 2759,2760,2763,2764

RS1/16S0R0J

 RS1/16S103J
 RAB4CQ470J
 RAB4CQ220J
 RAB4CQ103J
 RAB4CQ221J

R 2766
 R 2789
 R 2790
 R 2791
 R 2795,2796

RAB4CQ220J
 RS1/16SS1000F
 RS1/16SS1202F
 RS1/10S0R0J
 RS1/16S101J

B

L 3451 CHIP SOLID INDUCTOR
 JA 2402-2405 OPT. LINK IN
 JA 2406,2407 OPT. LINK OUT
 JA 2408 PIN JACK(2P)
 KN 2001,2201 WRAPPING TERMINAL

QTL1013
 AKS7001
 AKS7002
 AKB7173
 VNF1084

R 2822,3455
 R 2907,2908,2911,2912
 R 2910
 R 2913-2918,3108,3116
 R 2919,2920

RAB4CQ101J
 RS1/16S682J
 RS1/16S103J
 RS1/16S392J
 RS1/16S822J

R 2921,2922
 R 3001,3002,3009,3010
 R 3003-3006,3011-3014
 R 3007,3008,3015,3016
 R 3021,3022,3119,3120

RS1/16S911J
 RS1/16S181J
 RS1/16S222J
 RS1/16S202J
 RS1/16S221J

C

CN 2001 16P CONNECTOR
 CN 2002 29P CONNECTOR
 CN 2003 22P CONNECTOR
 CN 2005,2007,2902 PLUG
 CN 2006 7P SOCKET

VKN1420
 VKN1844
 RKN1063
 CKS1764
 XKP3074

R 3066,3080,3165,3166
 R 3101,3109,3201,3202
 R 3102,3110
 R 3103-3106,3203-3206
 R 3107,3112,3114,3115

RS1/16S0R0J
 RS1/16S681J
 RS1/16S181J
 RS1/16S222J
 RS1/16S122J

CN 2008,2903 PLUG
 CN 2401 PLUG(3P)
 CN 2402 23P SOCKET
 CN 2403 CONNECTOR
 CN 2901 PLUG

CKS1761
 KM200NA3
 XKP3082
 CKS3815
 CKS1758

R 3111,3113,3211-3214
 R 3180,3265,3266,3280
 R 3207,3208,3215,3216
 R 3209,3210,3301,3302
 R 3218,3317,3318,3413

RS1/16S272J
 RS1/16S0R0J
 RS1/16S122J
 RS1/16S681J
 RS1/16S474J

JH 2001 PCB BINDER

VEF1040

R 3219,3220,3319,3320
 R 3303-3306
 R 3307,3308,3315,3316
 R 3309,3310
 R 3311-3314

RS1/16S221J
 RS1/16S222J
 RS1/16S122J
 RS1/16S681J
 RS1/16S272J

D

RESISTORS

R 2001-2003,2005-2007
 R 2010,2013,2035,2201
 R 2015,2027,2032,2039
 R 2018,2209
 R 2021,2026,2028,2030

RS1/16S104J
 RS1/16S473J
 RS1/16S104J
 RS1/16S512J
 RAB4CQ101J

R 3365,3366,3380,3456
 R 3401,3402
 R 3403,3404
 R 3405,3406,3409,3410
 R 3407,3408

RS1/16S0R0J
 RS1/16S223J
 RS1/16S302J
 RS1/16S332J
 RS1/16S392J

R 2033,2034
 R 2036,2049,2207,2214
 R 2041,2043,2045,2046
 R 2047,3117,3118,3217
 R 2050,2066,2067,2069

RAB4CQ471J
 RAB4CQ101J
 RS1/16S104J
 RS1/16S474J
 RS1/16S104J

R 3411,3412
 R 3414
 R 3458
 Other Resistors

RS1/16S221J
 RS1/16S474J
 RS1/16S474J
 RS1/16S474J
 RS1/16S474J

E

R 2072,2103,2105,2107
 R 2073
 R 2140,2141,2270,2271
 R 2203,2717-2719,2721
 R 2210,2237,2466,2467

RAB4CQ473J
 RS1/16S472J
 RS1/16S0R0J
 RAB4CQ220J
 RS1/16S101J

CAPACITORS

C 2001,2040,3060,3068
 C 2002,2004,2006,2011
 C 2003,2014,2015,2039
 C 2005,2007,2030,2032
 C 2008,2738,2817

CKSRYB105K16
 CKSRYB104K16
 CKSRYB471K50
 CKSRYB102K50
 CKSSYB103K16

R 2211,2217,2229,2230
 R 2216,2218,2223,2226
 R 2233,2235
 R 2234,2425,2730,2812
 R 2241

RS1/16S473J
 RAB4CQ101J
 RS1/16S473J
 RAB4CQ101J
 RAB4CQ473J

C 2009
 C 2012,3011,3012,3111
 C 2013,2220,2221,2954
 C 2016,2047,3001,3002
 C 2017,2018,2020-2022

ACH7298
 CKSRYB472K50
 CKSRYB103K50
 CCSRCH102J50
 CKSRYB104K16

F

R 2255
 R 2401,2402
 R 2404,2405,2901-2904
 R 2423

RS1/16S104J
 RS1/16S750J
 RS1/16S220J
 RS1/16SS1802F

C 2019,2026,2211-2215
 C 2024,2029,2031,2038
 C 2025

CKSSYB104K10
 CKSRYB104K16
 CEAT331M10

C FRONT IN ASSY
SEMICONDUCTORS

MISCELLANEOUS

L 6201	CHIP SOLID INDUCTOR	QTL1013
JA 6201	JACK	RKN1004
JA 6202	FRONT AV INPUT	AKX7019
JA 6301	USB CONNECTOR	XKP3086
JA 6351	PHONE JACK	AKN7029
KN 6201,6202	WRAPPING TERMINAL	VNF1084
KN 6351	WRAPPING TERMINAL	VNF1084
CN 6201	PLUG(3P)	KM200NA3

Mark No. Description

CN 6202 CONNECTOR
CN 6301 PLUG(5P)

Part No.

CKS3380
KM200NA5

CN 6351 4P JUMPER CONNECTOR

52147-0410

RESISTORS

All Resistors

RS1/16S###J

MISCELLANEOUS

JH 6302 PCB BINDER

VEF1040

CAPACITORS

C 6202,6208,6218,6224
C 6204,6220,6226,6228
C 6205,6206
C 6209
C 6210,6211,6234,6235

CKSRYB104K16
CKSRYB103K50
CKSRYB221K50
CKSRYB105K6R3
CEAT100M50

C 6212
C 6213
C 6214-6216,6249-6251
C 6219
C 6222,6227

CKSRYB471K50
CKSQYB106K6R3
CCSRCH101J50
CEJQ100M16
CCSRCH220J50

C 6223,6225
C 6229
C 6230-6232,6239,6246
C 6233
C 6236,6245,6247

CEAT330M25
CKSRYB102K50
CKSRYB103K50
CKSRYB472K50
CKSRYB104K16

C 6237
C 6240-6242,6356
C 6243,6244
C 6248
C 6303

CEAT100M50
CCSRCH102J50
CEAL220M16
CKSRYB103K50
CKSRYB104K25

C 6353,6354

CKSRYB822K50

D 232C & CONTROL ASSY**SEMICONDUCTORS**

IC 5801
Q 5801
Q 5802
Q 5806
Q 5807

HIN202EIBNZ
2SC4154
DTA114TUA
2SA1366
RT1N241M

D 5804,5805
D 5806,5807
D 5809,5810
D 5813,5814
D 5815,5816

1SS352
1SS357
SIM-20STS1
MC2848-11
HZU5R1(B2)

MISCELLANEOUS

L 5803-5807 CHIP SOLID INDUCTOR
L 5809-5811 CHIP SOLID INDUCTOR
JA 5801 9P D-SUB SOCKET
JA 5802,5804-5806 JACK
JA 5803 MINI JACK(4P) /W SW

QTL1013
QTL1013
AKP1213
VKB1243
XKN3015

KN 5801,5802 SCREW PLATE
CN 5801 23P SOCKET

VNE1948
XKP3082

RESISTORS

All Resistors

RS1/16S###J

MISCELLANEOUS

U 5801 REMOTE RECEIVER UNIT

GP1UE284QKC1

Mark No. Description**CAPACITORS**

C 5802,5811,5828
C 5803
C 5804,5805
C 5807-5810
C 5812,5829

C 5830,5831
C 5832-5834
C 5837

Part No.

CKSRYB103K50
CCSRCH331J50
CKSRYB102K50
CKSRYB104K16
CEAT101M16

CKSRYB471K50
CCSRCH100D50
CCSRCH101J50

HDMI NETWORK ASSY (SC-LX81)**SEMICONDUCTORS**

⚠ IC 11
⚠ IC 21
⚠ IC 31
IC 101
IC 201

IC 202
IC 203
IC 204,205,208
IC 251
IC 252

IC 301,351
⚠ IC 302,352
IC 401
IC 402
IC 501

IC 502
IC 504
IC 505,911,1871
IC 601
IC 801

IC 861
IC 881
IC 891
IC 921,1861
⚠ IC 1001

⚠ IC 1021
⚠ IC 1051
⚠ IC 1071
IC 1081
IC 1082

IC 1151
IC 1204
IC 1208
IC 1301
IC 1351

IC 1381,1383,1384,1402
IC 1382,1401,1403
IC 1404
IC 1701
⚠ IC 1702

IC 1703
IC 1901
⚠ IC 1902
IC 1903
IC 1951

Q 201
Q 301,351,1104,1203

NJM2846DL3-33
NJM2846DL3-18
NJM2886DL3-33
SII9135CTU
TC74VHC541FTS1

ICS571MLF
TC7WH74FU
TC7WH157FU
TC74VHC157FTS1
TC7SH08FUS1

SII9134CTU
NJM2872BF05
ADV7800BSTZ-80
TC7WHU04FU
PEG118A

AYW7254
BU4094BCFV
TC74VHC08FTS1
ADV7172KSTZ
AAT4618IGV-0.5-1

RTL8201CP-LF
AYW7255
HY57V281620FTP-6
TC74VHCT08AFTS1
TPS54350PWP

LTC3850EGN
LT3505EMS8E
NJM2885DL1-05
TC7WH125FU
TC7WT125FU

SII9185ACTU
S-24CS02AFT
TC7MB3257FK
FLI2310-LF-CF
M12L64322A-6TG

TC74LCX541FTS1
TC7SZ125FU
TC74LCX541FTS1
UPD61111GM-100UEVA
NJM2885DL1-15

KA5SDKAS01TSN
K4H561638H-UCB3
S-1132B25-U5
NJM12904V
AYW7232

RT1P241M
DTC114YUA

5			6			7			8		
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.				
	Q	302,352	UMB1N	X	702	CRYSTAL RESONATOR (25.0 MHz)	ASS7084				
	Q	631,641,651,661	2SA1602A	X	791	CRYSTAL OSCILLATOR (32.768 kHz)	ASS1172				
	Q	671,681,1801,1811	2SA1602A	X	1301	CRYSTAL RESONATOR (13.5 MHz)	ASS7070				A
⚠	Q	1001	RTQ045N03	X	1701	CRYSTAL RESONATOR (27.0000 MHz)	BSS1123				
⚠	Q	1021,1022	SP8K1	CN	201	23P SOCKET	XKP3083				
	Q	1204	DTC114YUA	CN	502	13P SOCKET	XKP3077				
	Q	1281	HN1K02FU	CN	601	CONNECTOR	CKS4898				
	Q	1821,1831	2SA1602A	CN	801	CONNECTOR	AKM1276				
	D	301,351	UDZS5R1(B)	CN	902	5P CONNECTOR	VKN1374				
	D	551,1701	RB501V-40	CN	1001	CONNECTOR	CKS3815				
⚠	D	1001	RLZ6.8B	CN	1002	15P SOCKET	XKP3078				
	D	1021,1022,1052	RB160VA-40	CN	1003	CONNECTOR	CKS1755				
⚠	D	1023,1024	RLZ5.6B	CN	1701	22P CONNECTOR	VKN1426				
	D	1051	RB160M-30	CN	1702	CONNECTOR	VKN2040				B
	D	1101-1104	DAN202U	JH	1	PCB BINDER	VEF1040				
	D	1861	1SS352								
MISCELLANEOUS				RESISTORS							
L	101-104,301-305	CHIP BEADS	ATL7010	R	101,103-105,108		RAB4CQ100J				
L	105,106	CHIP SOLID INDUCTOR	QTL1013	R	115,204		RAB4CQ680J				
L	201	INDUCTOR	CTF1379	R	119,320,322-330		RAB4CQ473J				
L	202-204	CHIP SOLID INDUCTOR	QTL1013	R	130-132,134-136		RAB4CQ100J				
L	207,208	CHIP SOLID INDUCTOR	QTL1013	R	141-144		ACN1275				
L	251,252	CHIP SOLID INDUCTOR	QTL1013	R	305,355,609,612		RS1/16SS6800F				
L	306-309,356-359	COIL	ATH7022	R	428,429,789		RAB4CQ330J				
L	351-355,401,402	CHIP BEADS	ATL7010	R	432,433,1385-1388		RAB4CQ470J				C
L	403,405	CHIP SOLID INDUCTOR	QTL1013	R	434,437,442,443		RAB4CQ473J				
L	404,406,1001,1021	CHIP BEADS	ATL7010	R	446,447,450,708		RAB4CQ473J				
L	501,601	CHIP SOLID INDUCTOR	ATL7002	R	464,465,467,468		RAB4CQ472J				
L	602	CHIP SOLID INDUCTOR	ATL7002	R	480-483,741,761		RAB4CQ220J				
L	631,641,651,661	INDUCTOR	ATL7015	R	596		RAB4CQ101J				
L	671,681,1801,1811	INDUCTOR	ATL7015	R	610,611		RS1/16SS5601F				
L	701,702,805,861	INDUCTOR	CTF1357	R	633,643,653,663		RS1/16SS2200F				
L	704-707	CHIP FERRITE BEADS	ATF1211	R	634,644,654,664		RS1/16SS4700F				
L	801	CHIP FERRITE BEADS	VTL1169	R	673,683,1702		RS1/16SS2200F				
L	802	COIL	VTH1043	R	674,684		RS1/16SS4700F				
L	862,871,881,891	INDUCTOR	CTF1357	R	723		RS1/16S5101F				D
L	863,864	COIL	VTH1056	R	724		RS1/16S3900F				
L	911,936	INDUCTOR	CTF1357	R	746,747,749		RAB4CQ100J				
L	1002	POWER INDUCTOR	ATH7059	R	769,771,1322-1324		RAB4CQ220J				
L	1022	INDUCTOR	CTH1261	R	806,977,1031		RS1/16S0R0J				
L	1023	INDUCTOR	ATH7060	R	824		RS1/16SS1003F				
L	1051,1151-1153	CHIP BEADS	ATL7010	R	851-854,1906,1907		RAB4CQ330J				
L	1052	INDUCTOR	ATH7061	R	867		RS1/16S2001F				
L	1097-1099	INDUCTOR	CTF1386	R	868-871		RS1/16S49R9F				
L	1301-1305	CHIP SOLID INDUCTOR	ATL7002	R	919		RS1/10S102J				
L	1351,1901	CHIP SOLID INDUCTOR	ATL7002	R	1009,1056		RS1/16SS1002F				
L	1381-1384	CHIP SOLID INDUCTOR	QTL1013	R	1011		RS1/16SS2001F				E
L	1401-1404	CHIP SOLID INDUCTOR	QTL1013	R	1016,1029,1030,1057		RS1/10S0R0J				
L	1701-1706,1902	FERRITE CORE	VTF1091	R	1021,1022,1025,1026		ACN7160				
L	1821,1831	INDUCTOR	ATL7015	R	1023		RS1/16SS4702F				
L	1861,1871	CHIP SOLID INDUCTOR	QTL1013	R	1024,1027		RS1/16SS1502F				
L	1951	FERRITE CORE	VTF1091	R	1028		RS1/16SS1202F				
JA	301,351	HDMI CONNECTOR	AKP7225	R	1055		RS1/16SS6802F				
JA	701	RJ45 CONNECTOR TRNS	VKN2078	R	1071-1074,1905		RS1/16S0R0J				
JA	1101-1104	HDMI CONNECTOR	AKP7225	R	1158,1159		RS1/16SS1501F				
X	101	CRYSTAL RESONATOR (28.322 MHz)	ASS7085	R	1314-1317,1352		RAB4CQ100J				
X	401	CRYSTAL RESONATOR (28.63636 MHz)	ASS7069	R	1327,1354-1361,1717		RAB4CQ220J				F
X	501	CERAMIC RESONATOR (15.7 MHz)	XSS3004	R	1389,1729,1730,1740		RAB4CQ560J				
X	701	CRYSTAL RESONATOR (24.576 MHz)	XSS3003	R	1403,1404,1409,1410		RAB4CQ0R0J				
				R	1405,1406,1411,1412		RAB4CQ470J				

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
A	R	1701,1901,1902	RS1/10S0R0J	C	433,505,610,791		CKSSYB105K6R3
	R	1703	RS1/16SS1500F				
				C	439,440,1303,1704		DCH1201
	R	1706,1707	RS1/16SS9100F	C	441-443,445-449		CKSSYB104K10
	R	1718	RAB4CQ220J	C	461,502,504,506		CKSSYB104K10
	R	1726	RAB4CQ0R0J	C	511,551,552		CKSSYB104K10
	R	1741,1743,1748,1754	RAB4CQ560J	C	512,735,1033,1034		CKSSYB102K50
	R	1755	RAB4CQ560J				
				C	602-609,612,614		CKSSYB104K10
	R	1792-1794	RAB4CQ473J	C	613,934,935,937		CKSSYB103K16
B	R	1802,1803,1812,1813	RS1/16SS8200F	C	615,617,631,641		CKSSYB104K10
	R	1804,1814,1824,1834	RS1/16SS3900F	C	619-622,718,721		CKSSYB471K50
	R	1822,1823,1832,1833	RS1/16SS8200F	C	632,642,652,662		CCSSCH101J50
	R	1903,1904	RS1/16SS1001F				
				C	633,643,653,663		CCSSCH560J50
	R	1914,1915	RAB4CQ330J	C	651,661,671,681		CKSSYB104K10
	Other Resistors		RS1/16SS###J	C	672,682,951		CCSSCH101J50
				C	673,683		CCSSCH560J50
				C	701,702,704-709		CKSSYB104K10
CAPACITORS							
	C	11,31,322,372	CKSRYB104K16				
	C	12,32,1072	CKSQYB225K10	C	710,742,743		CEVW100M16
	C	21,106-108,110	CKSSYB104K10	C	711-717,719,722		CKSSYB104K10
	C	22,1702	CKSQYB475K6R3	C	720,867,870,883		CEVW220M16
	C	23,1703	CEVW221M4	C	723,936		CEVW470M6R3
				C	724-734,736-739		CKSSYB104K10
	C	33	CEVW101M6R3				
	C	101,102,301,302	DCH1165	C	744-750,792,860		CKSSYB471K50
	C	103,104,303-305	CKSQYB106K6R3	C	801,803-805,1014		CKSRYB104K16
	C	105,113,121,122	CKSSYB105K6R3	C	802,807,1302,1305		CEVW101M16
	C	109,111,131,203	CKSSYB103K16	C	861-865,868,871		CKSSYB104K10
				C	866,869,881,895		CKSSYB471K50
	C	114-120,123-126	CKSSYB104K10				
	C	127,463,740,1339	CCSSCH120J50	C	872,874,882		CKSSYB104K10
	C	128,462,741	CCSSCH100D50	C	873		CEVW330M16
	C	129,130,133,306	CKSSYB105K6R3	C	875,1015,1046,1047		CCSRCH102J50
	C	132,134-139,201	CKSSYB104K10	C	891-894,900,911		CKSSYB104K10
				C	897-899,912,921		CKSSYB471K50
	C	140-153,155,156	CKSSYB471K50				
	C	157,401,402,503,1705,1906	VCH1234	C	922,950,1081,1082		CKSSYB104K10
	C	159,160,1400	ACH7306	C	932		VCH1268
	C	202	CEVW4R7M35	C	938,1166,1313		CKSSYB103K16
	C	204,310,360,412	CKSSYB103K16	C	939		CCSSCH180J50
				C	940		CCSSCH150J50
	C	206-208,211,251	CKSSYB104K10				
	C	210,333-336	CKSSYB471K50	C	946		CSZS330M6R3
	C	216-218,252,421	CKSSYB102K50	C	1001		CKSQYB104K25
	C	219,220,319,369	VCG1063	C	1002		CEVW101M25
	C	253,307,309,312	CKSSYB104K10	C	1003,1004,1021,1022		CCG1195
				C	1005,1011		CKSRYB682K25
	C	308,311,313-315	CKSSYB105K6R3				
	C	316,317,324,357	CKSSYB104K10	C	1006,1039		CCSRCH681J50
	C	318,356,358,361	CKSSYB105K6R3	C	1007,1029-1031,1041		CKSRYB104K25
	C	320,321,370,371	CKSRYB105K10	C	1008		CKSQYB105K16
	C	325-332,375-382	VCG1066	C	1009,1052,1151,1156		BCG1059
				C	1023,1027		CCG1233
	C	351,352	DCH1165				
	C	353-355,417,430	CKSQYB106K6R3	C	1024,1026		CKSQYB475K10
	C	359,362,366,367	CKSSYB104K10	C	1025,1028		CCSRCH101J50
	C	363-365,368,404	CKSSYB105K6R3	C	1032		CKSRYB105K10
	C	374,403,405-411	CKSSYB104K10	C	1035,1040		CKSRYB223K16
				C	1036		CKSRYB222K50
	C	383-386,481-485	CKSSYB471K50				
	C	413	CKSSYB823K10	C	1037		CCSRCH470J50
	C	414,435,436,501	CKSSYB103K16	C	1038		CCSRCH121J50
	C	415	CKSRYB824K10	C	1042,1053		CKSRYB104K25
	C	416	CKSSYB393K10	C	1051		CKSQYB105K25
				C	1054		CCSSCH220J50
	C	418,420,422-429	CKSSYB104K10				
	C	419,434,601,611	CEVW101M16	C	1056		CCSRCH151J50
	C	431,437,438	CKSSYB104K10	C	1057,1071,1099,1701		CKSRYB104K16
	C	432,1157	CKSQYB106K6R3	C	1101-1104,1352,1363		VCG1063

Mark No. Description**Part No.**

C 1152-1155,1158-1165
C 1167,1207,1208,1306

C 1168-1175,1323,1333
C 1301,1705,1906
C 1308-1312,1319-1322
C 1314-1318,1353-1362
C 1324-1332,1335-1338

CKSSYB104K10
CKSSYB104K10

CKSSYB471K50
VCH1234
CKSSYB104K10
CKSSYB105K6R3
CKSSYB104K10

C 1334,1343-1348,1350
C 1340
C 1341,1381-1384
C 1342,1708
C 1349,1917

CKSSYB471K50
CCSSCH120J50
CKSSYB104K10
CEVW101M16
CCSSCH471J16

C 1351
C 1364-1368,1385-1388
C 1369
C 1399
C 1401-1404,1711-1717

ACH7174
CKSSYB471K50
CKSRYB103K25
VCG1063
CKSSYB104K10

C 1405-1408,1748-1754
C 1706,1709,1904,1905
C 1710
C 1719-1721,1723-1727
C 1729-1736,1738,1739

CKSSYB471K50
DCH1201
CKSRYB104K16
CKSSYB104K10
CKSSYB104K10

C 1740,1741
C 1742
C 1743,1745,1746,1801
C 1747,1907-1915
C 1802,1803,1812,1813

CCSSCK1R0C50
CKSSYB102K50
CKSSYB104K10
CKSSYB105K6R3
CCSSCH470J50

C 1811,1821,1831,1861
C 1822,1823,1832,1833
C 1871,1916,1951
C 1901-1903
C 1918-1922

CKSSYB104K10
CCSSCH470J50
CKSSYB104K10
CKSQYB225K10
CKSSYB471K50

**HDMI NETWORK ASSY (SC-LX71)****SEMICONDUCTORS**

⚠ IC 11	NJM2846DL3-33
⚠ IC 21	NJM2846DL3-18
⚠ IC 31	NJM2886DL3-33
IC 101	SIH9135CTU
IC 201	TC74VHC541FTS1
IC 202	ICS571MLF
IC 203	TC7WH74FU
IC 204,205,208	TC7WH157FU
IC 251	TC74VHC157FTS1
IC 252	TC7SH08FUS1
IC 351	SIH9134CTU
⚠ IC 352	NJM2872BF05
IC 401	ADV7800BSTZ-80
IC 402	TC7WHU04FU
IC 501	PEG118A
IC 502	AYW7254
IC 504	BU4094BCFV
IC 505,911,1871	TC74VHC08FTS1
IC 601	ADV7172KSTZ
IC 801	AAT4618IGV-0.5-1
IC 861	RTL8201CP-LF
IC 881	AYW7255
IC 891	HY57V281620FTP-6
IC 921,1861	TC74VHCT08AFTS1

Mark No. Description**Part No.**

⚠ IC 1001

⚠ IC 1021
⚠ IC 1051
⚠ IC 1071
IC 1081
IC 1082

TPS54350PWP

LTC3850EGN
LT3505EMS8E
NJM2885DL1-05
TC7WH125FU
TC7WT125FU

IC 1151
IC 1204
IC 1208
IC 1301
IC 1351

SIH9185ACTU
S-24CS02AFT
TC7MB3257FK
FLI2310-LF-CF
M12L64322A-6TG

IC 1381,1383,1384,1402
IC 1382,1401,1403
IC 1404
IC 1701
⚠ IC 1702

TC74LCX541FTS1
TC7SZ125FU
TC74LCX541FTS1
UPD61111GM-100UEVA
NJM2885DL1-15

IC 1703
IC 1901
⚠ IC 1902
IC 1903
IC 1951

KA5SDKAS01TSN
K4H561638H-UCB3
S-1132B25-U5
NJM12904V
AYW7232

Q 201
Q 351,1104,1203,1204
Q 352
Q 631,641,651,661
Q 671,681,1821

RT1P241M
DTC114YUA
UMB1N
2SA1602A
2SA1602A

⚠ Q 1001
⚠ Q 1021,1022
Q 1281
D 351
D 551,1701

RTQ045N03
SP8K1
HN1K02FU
UDZS5R1(B)
RB501V-40

⚠ D 1001
D 1021,1022,1052
⚠ D 1023,1024
D 1051
D 1101-1104

RLZ6.8B
RB160VA-40
RLZ5.6B
RB160M-30
DAN202U

D 1861

1SS352

MISCELLANEOUS

L 101-104,351-355 CHIP BEADS
L 105,106 CHIP SOLID INDUCTOR
L 201 INDUCTOR
L 202-204 CHIP SOLID INDUCTOR
L 207,208 CHIP SOLID INDUCTOR

L 251,252 CHIP SOLID INDUCTOR
L 356-359 COIL
L 401,402,404,406 CHIP BEADS
L 403,405 CHIP SOLID INDUCTOR
L 501,601 CHIP SOLID INDUCTOR

L 602 CHIP SOLID INDUCTOR
L 631,641,651,661 INDUCTOR
L 671,681,1821 INDUCTOR
L 701,702,805,861 INDUCTOR
L 704-707 CHIP FERRITE BEADS

L 801 CHIP FERRITE BEADS
L 802 COIL
L 862,871,881,891 INDUCTOR
L 863,864 COIL
L 911,936 INDUCTOR

ATL7010
QTL1013
CTF1379
QTL1013
QTL1013

QTL1013
ATH7022
ATL7010
QTL1013
ATL7002

ATL7002
ATL7015
ATL7015
CTF1357
ATF1211

VTL1169
VTH1043
CTF1357
VTH1056
CTF1357

Mark No. Description**Part No.****Mark No. Description****Part No.**

A

L 1001,1021,1051 CHIP BEADS ATL7010
 L 1002 POWER INDUCTOR ATH7059
 L 1022 INDUCTOR CTH1261
 L 1023 INDUCTOR ATH7060
 L 1052 INDUCTOR ATH7061

R 851-854,1906,1907 RAB4CQ330J
 R 867 RS1/16S2001F
 R 868-871 RS1/16S49R9F
 R 919 RS1/10S102J
 R 1009,1056 RS1/16SS1002F
 R 1011 RS1/16SS2001F

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L 1097-1099 INDUCTOR CTF1386
 L 1151-1153 CHIP BEADS ATL7010
 L 1301-1305 CHIP SOLID INDUCTOR ATL7002
 L 1351,1901 CHIP SOLID INDUCTOR ATL7002
 L 1381-1384 CHIP SOLID INDUCTOR QTL1013

R 1016,1029,1030,1057 RS1/10S0R0J
 R 1021,1022,1025,1026 ACN7160
 R 1023 RS1/16SS4702F
 R 1024,1027 RS1/16SS1502F
 R 1028 RS1/16SS1202F

B

L 1401-1404 CHIP SOLID INDUCTOR QTL1013
 L 1701-1706,1902 FERRITE CORE VTF1091
 L 1861,1871 CHIP SOLID INDUCTOR QTL1013
 L 1951 FERRITE CORE VTF1091
 JA 351,1101-1104 HDMI CONNECTOR AKP7225

R 1055 RS1/16SS6802F
 R 1071-1074,1905 RS1/16S0R0J
 R 1158,1159 RS1/16SS1501F
 R 1314-1317,1352 RAB4CQ100J
 R 1327,1354-1361,1717 RAB4CQ220J

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JA 701 RJ45 CONNECTOR TRNS VKN2078
 X 101 CRYSTAL RESONATOR (28.322 MHz) ASS7085
 X 401 CRYSTAL RESONATOR (28.63636 MHz) ASS7069
 X 501 CERAMIC RESONATOR (15.7 MHz) XSS3004
 X 701 CRYSTAL RESONATOR (24.576 MHz) XSS3003

R 1389,1729,1730,1740 RAB4CQ560J
 R 1403,1404,1409,1410 RAB4CQ0R0J
 R 1405,1406,1411,1412 RAB4CQ470J
 R 1701,1901,1902 RS1/10S0R0J
 R 1703 RS1/16SS1500F

C

X 702 CRYSTAL RESONATOR (25.0 MHz) ASS7084
 X 791 CRYSTAL OSCILLATOR (32.768 kHz) ASS1172
 X 1301 CRYSTAL RESONATOR (13.5 MHz) ASS7070
 X 1701 CRYSTAL RESONATOR (27.0000 MHz) BSS1123
 CN 201 23P SOCKET XKP3083

R 1706,1707 RS1/16SS9100F
 R 1718 RAB4CQ220J
 R 1726 RAB4CQ0R0J
 R 1741,1743,1748,1754 RAB4CQ560J
 R 1755 RAB4CQ560J

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CN 502 13P SOCKET XKP3077
 CN 601 CONNECTOR CKS4898
 CN 801 CONNECTOR AKM1276
 CN 902 5P CONNECTOR VKN1374
 CN 1001 CONNECTOR CKS3815

R 1792-1794 RAB4CQ473J
 R 1822,1823 RS1/16SS8200F
 R 1824 RS1/16SS3900F
 R 1903,1904 RS1/16SS1001F
 R 1914,1915 RAB4CQ330J

D

RESISTORS

CN 1002 15P SOCKET XKP3078
 CN 1003 CONNECTOR CKS1755
 CN 1701 22P CONNECTOR VKN1426
 CN 1702 CONNECTOR VKN2040
 JH 1 PCB BINDER VEF1040

Other Resistors RS1/16SS###J

CAPACITORS

C 11,31,372,801 CKSRYB104K16
 C 12,32,1072 CKSQYB225K10
 C 21,106-108,110 CKSSYB104K10
 C 22,1702 CKSQYB475K6R3
 C 23,1703 CEVW221M4

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R 101,103-105,108 RAB4CQ100J
 R 115,204 RAB4CQ680J
 R 119,320,322-330 RAB4CQ473J
 R 130-132,134-136 RAB4CQ100J
 R 141-144 ACN1275

C 33 CEVW101M6R3
 C 101,102,351,352 DCH1165
 C 103,104,353-355 CKSQYB106K6R3
 C 105,113,121,122 CKSSYB105K6R3
 C 109,111,131,203 CKSSYB103K16

E

R 355,609,612 RS1/16SS6800F
 R 428,429,789 RAB4CQ330J
 R 432,433,1385-1388 RAB4CQ470J
 R 434,437,442,443 RAB4CQ473J
 R 446,447,450,708 RAB4CQ473J

C 114-120,123-126 CKSSYB104K10
 C 127,463,740,1339 CCSSCH120J50
 C 128,462,741 CCSSCH100D50
 C 129,130,133,356 CKSSYB105K6R3
 C 132,134-139,201 CKSSYB104K10

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R 464,465,467,468 RAB4CQ472J
 R 480-483,741,761 RAB4CQ220J
 R 596 RAB4CQ101J
 R 610,611 RS1/16SS5601F
 R 633,643,653,663 RS1/16SS2200F

C 140-153,155,156 CKSSYB471K50
 C 157,401,402,503,1705,1906 VCH1234
 C 159,160,1400 ACH7306
 C 202 CEVW4R7M35
 C 204,360,412,414 CKSSYB103K16

F

R 634,644,654,664 RS1/16SS4700F
 R 673,683,1702 RS1/16SS2200F
 R 674,684 RS1/16SS4700F
 R 723 RS1/16SS101F
 R 724 RS1/16S3900F

C 206-208,211,251 CKSSYB104K10
 C 210,383-386 CKSSYB471K50
 C 216-218,252,421 CKSSYB102K50
 C 219,220,369 VCG1063
 C 253,357,359,362 CKSSYB104K10

F INTERFACE ASSY
SEMICONDUCTORS

H 7101,7102 FUSE CLIP
J 7061 JUMPER WIRE
KN 7001-7006 WRAPPING TERMINAL
CN 7001 7P PLUG
CN 7002,7005,7006 CONNECTOR

CN 7003,7004 CONNECTOR
CN 7007 PLUG
CN 7008,7014,7021 23P PLUG
CN 7009,7013 CONNECTOR
CN 7011 15P PLUG

D3SBA20(B)

AKR7001
D20PDY0415E
VNF1084
XKP3063
CKS1730

CKS1727
CKS1724
XKP3071
CKS3813
XKP3067

Mark No. Description**Part No.****Mark No. Description****Part No.**

CN 7012 CONNECTOR
CN 7031 27P CONNECTOR
CN 7032,7042 CONNECTOR
CN 7041 CONNECTOR
CN 7051 CONNECTOR

CKS1721
VKN1258
CKS3384
CKS3386
CKS3382

C 6019,6020,6022,6023
C 6025

C 6026,6027,6111,6112
C 6028,6038,6039
C 6043-6045,6050,6051
C 6046,6047,6058,6059
C 6055-6057

CKSRYB103K50
CEAT3R3M50

CKSRYB103K50
CEAT101M10
CEAT101M10
CKSRYB105K10
CEAT101M10

RESISTORS

All Resistors

RS1/16S###J

MISCELLANEOUS

JH 7002-7005 PCB BINDER
JH 7061 4P CABLE HOLDER
JP 7071 4P HOUSING ASSY
JP 7102 HOUSING ASSY
JP 7103 HOUSING ASSY

VEF1040
51048-0400
ADX7676
ADX7635
ADX7634

C 6061,6065,6069,6071
C 6064,6070,6072,6074
C 6068
C 6073,6075,6085,6087
C 6084,6086,6088,6091

CCSRCH102J50
CKSRYB105K10
CKSRYB105K16
CCSRCH102J50
CKSRYB105K10

JP 7104 HOUSING ASSY

ADX7636

C 6089,6092,6095,6100
C 6090,6093
C 6094,6099,6101,6105
C 6096,6103,6104,6143
C 6097,6098

CCSRCH102J50
ACH1479
CKSRYB105K10
CEAT101M16
CKSRYB224K10

CAPACITORS

C 7101
C 7102,7105-7109
C 7104

CFTLA394J50
CCSRCH102J50
CEAT682M25

C 6102,6106,6108,6138
C 6107,6137,6147,6148
C 6110,6115-6117
C 6113,6114,6121-6124
C 6125-6136,6184

CCSRCH102J50
CKSRYB105K10
CKSRYB104K16
CCSRCH100D50
CKSRYB103K50

G COMPONENT ASSY

SEMICONDUCTORS

IC 6001-6004
IC 6005
IC 6006
IC 6007,6008
IC 6009,6012

TC74LVX4052FT
TC74LVX4053FT
LA7213
NJM2581M
TC4094BFN

C 6144,6174,6176,6177
C 6146,6149,6150,6153
C 6151,6152,6155,6157
C 6154,6156,6159,6160
C 6158,6161,6162,6165

CEAT101M16
CCSRCH102J50
CKSRYB105K10
CCSRCH102J50
CKSRYB105K10

IC 6010,6013-6015
Q 6001-6007,6017,6018
Q 6008,6019,6021

TC74VHCT08AFTS1
2SA1602A
RT1N241M
2SC4154
2SA1602A

C 6163,6164,6172,6173
C 6175,6181,6197-6199
C 6179,6180,6182,6183
C 6185,6187
C 6186,6188,6196

CCSRCH102J50
CCSRCH100D50
CEAT101M16
CKSRYB105K10
CCSRCH102J50

⚠ Q 6015
⚠ Q 6016

C 6189-6191

CEAT100M50

Q 6020
D 6001
D 6002,6003
D 6010

2SA1602A
1SS352
RR264M-400
UDZS5R1(B)

H COMPOSITE S ASSY

SEMICONDUCTORS

IC 6501,6512
IC 6502,6513
IC 6505,6506,6508,6509
IC 6510
IC 6511

TC4094BFN
LA7109
TC74HC4051AFT
LA7213
TC74HC4053AFT

IC 6516-6518
Q 6501-6508
Q 6509
Q 6510
Q 6516,6524,6525

NJM2505AF
IMX25
2SA1602A
RT1N241M
2SC4154

D 6501
D 6502,6503
D 6504-6508

1SS352
RR264M-400
DAN217U

MISCELLANEOUS

L 6001 CHIP SOLID INDUCTOR
JA 6001 PIN JACK(3P)
JA 6002,6003 PIN JACK(6P)
JA 6004 JACK
KN 6001 SCREW PLATE

ATL7002
AKB7203
AKB7204
AKN-209
VNE1948

CN 6002 PLUG
CN 6004 13P PLUG
CN 6006 16P CONNECTOR
CN 6007 5P HOUSING ASSY
CN 6008 5P HOUSING ASSY

CKS3545
XKP3066
VKN1420
ADX7654
ADX7674

CN 6009 30P SOCKET

XKP3092

RESISTORS

R 6007,6012,6017
Other Resistors

RS1/16S1103D
RS1/16S###J

CAPACITORS

C 6004,6048,6049,6060
C 6012,6013,6016,6017
C 6018,6021,6024

CCSRCH102J50
CKSRYB103K50
CEAT100M50

MISCELLANEOUS

JA 6501,6502 PIN JACK(4P)
JA 6503 COMB.JACK(S+1P)
JA 6504-6507 COMB.JACK(2S+2P)
JA 6509 JACK
KN 6501-6503 SCREW PLATE

XKB3017
AKB7199
AKB7200
XKB3069
VNE1948

CN 6501 CONNECTOR
CN 6502 19P CONNECTOR
CN 6503 PLUG

CKS3374
52044-1945
CKS3545

Mark	No.	Description	Part No.
<u>RESISTORS</u>			
	All Resistors		RS1/16S###J
<u>CAPACITORS</u>			
C	6501,6503,6509,6547		CKSRYB105K10
C	6502,6504,6506,6508		CCSRCH102J50
C	6505,6507,6670-6673		CKSRYB105K16
C	6510,6548,6550-6555		CCSRCH102J50
C	6511,6512,6519,6520		CCSRCH101J50
C	6517,6518,6525,6526		CCSRCH331J50
C	6527,6528,6535,6536		CCSRCH101J50
C	6533,6534,6541,6542		CCSRCH331J50
C	6544,6599,6600,6605		CKSRYB103K50
C	6549,6556,6558,6567		CEAT101M10
C	6557,6559,6566,6568		CKSRYB104K16
C	6560-6565,6576,6578		CCSRCH181J50
C	6581,6586,6587,6601		CEAT101M10
C	6584,6585		CCSRCH181J50
C	6598		CEAT100M50
C	6602-6604,6641,6643		CKSRYB104K16
C	6606,6608,6609,6611		CKSRYB103K50
C	6607,6610,6613		CEAT220M50
C	6612,6648,6694,6698		CKSRYB103K50
C	6620,6621,6662-6667		CEAT101M16
C	6624		CKSRYB105K10
C	6625,6634-6639,6660		CCSRCH102J50
C	6640,6642		CEAT101M10
C	6650-6655,6689		CCSRCH100D50
C	6661,6668,6669,6674		CCSRCH102J50
C	6675,6679-6681		CCSRCH102J50
C	6676-6678,6682-6684		CKSRYB105K16
C	6685-6687,6692,6693		CCSRCH102J50
C	6688		CEAT101M16
C	6690,6691		CKSRYB105K16
C	6696,6697,6699,6700		CKSQYB106K6R
C	6701,6704		CKSRYB103K50
C	6702,6703		CKSQYB106K6R
C	6708-6710,6712		CEAT220M50
C	6714-6716		CEAT220M50
C	6717-6722		CKSRYB104K16

1 FRONT BRIDGE ASSY

MISCELLANEOUS

CN 7701 PLUG(6P)	KM200NA6R
CN 7704 19P CONNECTOR	52044-1945
CN 7705,7708 CONNECTOR	CKS3374
CN 7706 CONNECTOR	CKS3378
CN 7707 CONNECTOR	CKS3382
CN 7709 PLUG(3P)	KM200NA3
CN 7710 27P CONNECTOR	VKN1287
7701 PCB BINDER	VEF1040

RESISTORS

All Resistors RS1/16S###J

MISCELLANEOUS

JH 7702 PCB BINDER VEF1040

CAPACITORS

C 7702.7704 CCSRCH102J50

Mark	No.	Description	Part No.
C	7703		CKSRYP103K50
C	7711-7714		CCSRCH100D50
C	7715		CCSRCH181J50

J V-BRIDGE ASSY
MISCELLANEOUS

CN 8601,8602 CONNECTOR CKS3573

CAPACITORS

C 8602-8604 CKSRYB103K50

K **DISPLAY ASSY**
SEMICONDUCTORS

IC 8001	PDC179A8
IC 8002	GP1UE274XKC1
 IC 8004	S-1200B33-M5
IC 8201	PE5615A
Q 8001-8007	RT1N431M
Q 8009	2SA1602A
Q 8010	RT1N241M
Q 8012	2SK2034
D 8001,8003,8005,8007	SLR-343VC(NPQ)
D 8009,8013	SLR343BC4T(JKLM)
D 8011	SLR343WBCT(MNPQ)
D 8015,8016,8202	1SS352
D 8017,8201	MC2848-11
D 8019	RB751V-40
D 8020	1SS302

MISCELLANEOUS

L	8201	INDUCTOR	CTF1385
J	9201	3P JUMPER WIRE	D20PDD0305E
J	9203	4PJUMPER WIRE	D20PDD0410E
KN	8201	FL HOLDER(FE)	VNF1096
V	8201	FL TUBE DISPLAY	AAVZ113

S	8001-8012,8015-8020 SWITCH	VSG1024
S	8023 SWITCH	VSG1024
S	8024 ROTARY ENCODER	ASX7051
X	8002 CRYSTAL OSCILLATOR CRYSTAL OSC (15.0 MHz)	CSS1653
X	8201 CERAMIC RESONATOR (5.00 MHz)	VSS1142

CN 8001	29P CONNECTOR	VKN1872
CN 8002	9P CONNECTOR	VKN1269

RESISTORS

All Resistors RS1/16S###J

MISCELLANEOUS

JH 8001 3P CABLE HOLDER	51048-0300
JH 8003 4P CABLE HOLDER	51048-0400
JH 8201 6P HOUSING ASSY	ADX7675

CAPACITORS

C	8001-8007	CCSRCH101J50
C	8008	CCSRCH471J50
C	8009,8015,8016,8018	CKSRYB104K16
C	8012,8013	CCSRCH150J50
C	8014,8030,8031,8228	CKSRYB105K10

C 8019-8021,8202,8223	CKSRYB102K50
C 8022,8027,8034,8035	CKSRYB103K50
C 8023,8025,8026,8233	CCSRCH102J50
C 8024	ACH7272

Mark No. Description

C 8032,8033,8036,8224

C 8037
C 8201,8230
C 8203
C 8204-8220,8226
C 8221

C 8222,8232
C 8225,8227
C 8229
C 8231

Part No.

CKSRYB104K16

CCSRCH151J50
CKSRYB104K50
CEAT101M35
CKSRYB471K50
ACH7268

CKSRYB103K50
CKSRYB104K16
CKSRYB102K50
CEAT470M50

Mark No. Description

R 6890,6891,6910,6911

R 6930,6931
Other Resistors

CAPACITORS

C 6801,6802,6821,6822
C 6803,6804,6823,6824
C 6807,6808,6817,6818
C 6827,6828,6837,6838
C 6841,6842,6861,6862

C 6843,6844,6863,6864
C 6847,6848,6857,6858
C 6867,6868
C 6881,6882,6901,6902
C 6883,6884,6903,6904

C 6921,6922
C 6923,6924

Part No.

RN1/16SC10R0D
RN1/16SC10R0D
RS1/16S###J

CEJQ221M16
CFHXSQ103J16
CCSRCH102J50
CCSRCH102J50
CEJQ221M16

CFHXSQ103J16
CCSRCH102J50
CCSRCH102J50
CEJQ221M16
CFHXSQ103J16

CEJQ221M16
CFHXSQ103J16

L VOL ASSY**MISCELLANEOUS**

S 8401 ROTARY ENCODER
JH 8401 3P CABLE HOLDER

ASX7049
51048-0300

CAPACITORS

C 8401,8402

CKSRYB103K50

M POWER SW ASSY**SEMICONDUCTORS**

Q 8501
D 8502

RT1N431M
SLR343BC4T(JKLM)

MISCELLANEOUS

S 8501 SWITCH

VSG1024

RESISTORS

All Resistors

RS1/16S###J

MISCELLANEOUS

JH 8501 4P CABLE HOLDER

51048-0400

CAPACITORS

C 8501

CCSRCH101J50

N PRE BRIDGE ASSY**MISCELLANEOUS**

CN 6951 19P CONNECTOR
CN 6952 21P PLUG
CN 6953 FLOATING CONNECTOR

52044-1945
XKP3070
AKP7227

O ICE BUFFER ASSY**SEMICONDUCTORS**

IC 6800,6820,6840,6860
IC 6880,6900,6920

UPC4570G2-A
UPC4570G2-A

MISCELLANEOUS

J 6800 JUMPER WIRE
KN 6800,6801 SCREW PLATE
CN 6800 FLOATING CONNECTOR
CN 6810 19P PLUG
CN 6820 17P PLUG

D20PDY0410E
VNE1948
AKM7086
XKP3069
XKP3068

CN 6830 5P SOCKET
JH 6800 4P CABLE HOLDER

XKP3073
51048-0400

RESISTORS

R 6810,6811,6830,6831
R 6850,6851,6870,6871

RN1/16SC10R0D
RN1/16SC10R0D

P ICE INTERFACE ASSY**MISCELLANEOUS**

CN 3800 19P SOCKET
CN 3801 17P SOCKET
CN 3810,3840,3870 5P SOCKET
CN 3820,3830,3850,3860 PLUG

XKP3080
XKP3079
XKP3073
CKS1750

Q ICEPOWER AMP ASSY**SEMICONDUCTORS**

IC 4000,4001
IC 4003
IC 4004
IC 4005
IC 4006

BU7262SFVM
TC74VHC04FTS1
TC74VHC08FTS1
HA17431GLTPA
TC7WH08FU

⚠ IC 4101,4201,4301,4401
IC 4200,4400,4600,4700
IC 4202,4402,4602,4702
IC 4203,4403,4603,4703
IC 4204,4404,4604,4704

ICC3-AVR
ICC1-AVR
UPC4570G2-A
NJM4565MD
NJM12904V

⚠ IC 4501,4601,4701
⚠ IC 4900
Q 4000,4002,4003
Q 4001,4111,4211,4311
Q 4004,4006,4008,4010

ICC3-AVR
NJM1431AU
RT1N241M
2SA1602A
RT1P241M

Q 4005,4007,4009,4011
Q 4012,4013
Q 4014,4016
Q 4015,4109,4209,4309
⚠ Q 4100,4101,4200,4201

RT1N140M
RT3AMMM
HN1C01FU
2SC4154
PHB45NQ15T

Q 4102,4104,4202,4204
Q 4103,4105,4203,4205
Q 4106,4107,4206,4207
Q 4108,4208,4308,4408
Q 4110,4210,4310,4410

2SC5738
2SA2061
2SA1682
2SD2704K
2SA1514K

Q 4112,4312,4512,4712
⚠ Q 4300,4301,4400,4401
Q 4302,4304,4402,4404
Q 4303,4305,4403,4405
Q 4306,4307,4406,4407

RT1N140M
PHB45NQ15T
2SC5738
2SA2061
2SA1682

Q 4409,4509,4609,4709
Q 4411,4511,4611,4711

2SC4154
2SA1602A

Mark No. Description**Part No.****Mark No. Description****Part No.**

A

R 4546,4646,4746

RS1/16S3902F

C 4141,4142,4241,4242

CCG1245

R 4547-4549,4561,4562

ACN7165

C 4143-4146,4243-4246

CCG1248

R 4551,4552,4651,4652

ACN7162

C 4147,4148,4215,4218

CKSRYB105K10

R 4553,4653,4753

RS1/10S334J

C 4149,4150,4249,4250

ACH7304

R 4554,4654,4754

ACN7161

C 4155,4255,4355,4455

CKSYB475K25

R 4555,4655,4755

RS1/10S1502F

C 4157,4257,4357,4457

CKSRYB222K50

R 4563,4663,4763,4863

RS1/4SA1053F

C 4160,4260,4360,4460

CCSRCH102J50

R 4564,4664,4764,4864

RS1/16S3301F

C 4213,4217,4312,4313

ACH1479

R 4566,4666,4766,4900

RS1/16S1002F

C 4220,4230,4247,4248

CKSRYB105K10

R 4568,4668,4768

RS1/16S2202F

C 4221,4229,4252,4253

CKSRYB104K16

R 4569,4669,4769

RS1/16S1202F

C 4258,4321,4329,4352

CKSRYB104K16

R 4577,4677,4777

RS1/4SA2002F

C 4304,4305,4404,4405

ACG7069

R 4625,4667,4723,4725

RS1/16S1001F

C 4306,4307,4406,4407

ACG7072

R 4633,4635,4656,4676

RS1/16S1801F

C 4315,4318,4320,4330

CKSRYB105K10

R 4647-4649,4661,4662

ACN7165

C 4316,4351,4416,4451

CKSRYB105K16

R 4700,4701

RN1/16SE1000D

C 4317,4412,4413,4417

ACH1479

R 4702,4703

RN1/16SE9100D

C 4322,4328,4422,4428

ACG7073

R 4704,4705

RN1/16SE1001D

C 4331,4332,4431,4432

CKSQYB224K25

R 4726,4727

RS1/16S1501F

C 4335-4338,4435-4438

ACG7065

R 4733,4735,4756,4776

RS1/16S1801F

C 4341,4342,4441,4442

CCG1245

R 4745,4750

RS1/10S1002F

C 4343-4346,4443-4446

CCG1248

R 4747-4749,4761,4762

ACN7165

C 4347,4348,4415,4418

CKSRYB105K10

R 4751,4752

ACN7162

C 4349,4350,4449,4450

ACH7304

R 4767

RS1/16S1001F

C 4353,4356,4421,4429

CKSRYB104K16

R 4901

RS1/16S3301F

C 4420,4430,4447,4448

CKSRYB105K10

R 4902

RS2LMF682J

C 4452,4453,4458,4521

CKSRYB104K16

Other Resistors

RS1/16S###J

C 4500,4600,4700

CFTNA104J2A

C 4501,4601,4701

CFTNA274J2A

C 4504,4505,4604,4605

ACG7069

C 4506,4507,4606,4607

ACG7072

CAPACITORS

C 4001-4004,4011-4021

CCSRCH102J25

C 4508,4608,4708,4808

CEHAT221M25

C 4005,4006,4026,4027

CKSRYB104K16

C 4509,4609,4709,4809

CFHXSQ103J16

C 4010,4036,4916,4917

CEHAT331M10

C 4512,4513,4517,4612

ACH1479

C 4022,4025,4029,4040

CKSRYB105K10

C 4514,4614,4714

ACG7068

C 4023

CKSYB106K10

C 4515,4518,4520,4530

CKSRYB105K10

D

C 4024

CEHAT101M10

C 4516,4551,4616,4651

CKSRYB105K16

C 4028,4926

CKSRYB103K25

C 4519,4619,4719

CKSQYB474K16

C 4031-4035,4041,4121

CKSRYB104K16

C 4522,4528,4622,4628

ACG7073

C 4100,4200,4300,4400

CFTNA104J2A

C 4523,4623,4723

ACG7066

C 4101,4201,4301,4401

CFTNA274J2A

C 4524,4624,4724

ACG7078

E

C 4104,4105,4204,4205

ACG7069

C 4525,4625,4725

ACG7071

C 4106,4107,4206,4207

ACG7072

C 4526,4626,4726

ACG7079

C 4108,4208,4308,4408

CEHAT221M25

C 4527,4627,4727

ACG7070

C 4109,4209,4309,4409

CFHXSQ103J16

C 4529,4552,4553,4556

CKSRYB104K16

C 4112,4113,4117,4212

ACH1479

C 4531,4532,4631,4632

CKSQYB224K25

E

C 4114,4214,4314,4414

ACG7068

C 4533,4633,4733

ACG7064

C 4115,4118,4120,4130

CKSRYB105K10

C 4534,4634,4734

ACG7063

C 4116,4151,4216,4251

CKSRYB105K16

C 4535-4538,4635-4638

ACG7065

C 4119,4219,4319,4419

CKSQYB474K16

C 4541,4542,4641,4642

CCG1245

C 4122,4128,4222,4228

ACG7073

C 4543-4546,4643-4646

CCG1248

E

C 4123,4223,4323,4423

ACG7066

C 4547,4548,4615,4618

CKSRYB105K10

C 4124,4224,4324,4424

ACG7078

C 4549,4550,4649,4650

ACH7304

C 4125,4225,4325,4425

ACG7071

C 4555,4655,4755

CKSYB475K25

C 4126,4226,4326,4426

ACG7079

C 4557,4657,4757,4857

CKSRYB222K50

C 4127,4227,4327,4427

ACG7070

C 4560,4660,4760,4860

CCSRCH102J50

F

C 4129,4152,4153,4156

CKSRYB104K16

C 4613,4617,4712,4713

ACH1479

C 4131,4132,4231,4232

CKSQYB224K25

C 4620,4630,4647,4648

CKSRYB105K10

C 4133,4233,4333,4433

ACG7064

C 4621,4629,4652,4653

CKSRYB104K16

C 4134,4234,4334,4434

ACG7063

C 4658,4721,4729,4752

CKSRYB104K16

C 4135-4138,4235-4238

ACG7065

C 4704,4705

ACG7069

5	6	7	8	
Mark No. Description	Part No.	Mark No. Description	Part No.	
C 4706,4707	ACG7072	JH 8701 PCB BINDER	VEF1040	
C 4715,4718,4720,4730	CKSRYB105K10	RESISTORS		
C 4716,4751,4912,4913	CKSRYB105K16	R 8702	RD1/4MUF220J	A
C 4717,4817	ACH1479	Other Resistors	RS1/16S###J	
C 4722,4728	ACG7073			
C 4731,4732	CKSQYB224K25	CAPACITORS		
C 4735-4738	ACG7065	⚠ C 8701,8702	ACE7013	
C 4741,4742,4927-4929	CCG1245	⚠ C 8704	ACG7039	
C 4743-4746	CCG1248	C 8711	CFTLA103J50	
C 4747,4748,4818,4847	CKSRYB105K10	C 8712-8715,8720	CCSRCH102J50	
		C 8716	CEAT332M25	
C 4749,4750	ACH7304	C 8717,8719	CKSRYB103K50	
C 4753,4756,4758	CKSRYB104K16	C 8718	CEAT221M25	B
C 4900-4905	ACH7305			
C 4908	CEHAT221M25			
C 4909,4924,4925	CKSRYB104K25			
C 4914,4915	CKSQYB104K16	U PRIMARY GUARD ASSY		
C 4920,4921	CKSQYB105K25	MISCELLANEOUS		
C 4930,4931	CCSRCH102J50	CN 5752 5P PLUG	XKP3062	
R ICE SHIELD ASSY		V REG ASSY		
MISCELLANEOUS		SEMICONDUCTORS		
KN 6990 SCREW PLATE	VNE1948	⚠ IC 7501,7611	NJM78M12FA	
JH 6990 4P JUMPER CONNECTOR	52147-0410	⚠ IC 7502	NJM79M12FA	
		⚠ IC 7521	NJM78M06FA	C
		⚠ IC 7601	NJM78M56FA	
		⚠ IC 7602	NJM79M05FA	
S ZOUT ASSY		⚠ D 7501-7504,7521,7522	1SR154-400	
SEMICONDUCTORS		D 7505,7506,7523,7603	1SS357	
Q 6401,6411	IMX25	⚠ D 7601	D3SBA20(B)	
		D 7602	1SS352	
MISCELLANEOUS		D 7604,7614	1SS357	
JA 6401 PIN JACK(4P)	XKB3017			
CN 6401 11P CONNECTOR	52044-1145	⚠ D 7611,7612,7621-7623	1SR154-400	
		D 7613	1SR154-400	
		D 7624	HZU6R2(B2)	
RESISTORS		D 7625	PTZ24(B)	D
All Resistors	RS1/16S###J			
		MISCELLANEOUS		
CAPACITORS		H 7501-7504,7601-7604 FUSE CLIP	AKR7001	
C 6401,6402,6411,6412	CCSRCH471J50	CN 7501,7601 5P TOP POST	B5B-EH	
C 6421,6423	CKSRYB103K50	CN 7502 PLUG(5P)	KM200NA5R	
		CN 7602 PLUG(5P)	KM200NA5E	
		CN 7621 PLUG(6P)	KM200NA6	
T PRIMARY ASSY		JH 7502,7601 PCB BINDER	VEF1040	
SEMICONDUCTORS		⚠ P 7521,7522 PROTECTOR(1A)	AEK7009	
⚠ IC 8711	NJM78M56FA	RESISTORS		
Q 8712	RT1N431M	R 7621	RS1/16S473J	E
D 8703,8704,8719	1SS352	⚠ Other Resistors	RD1/4MUF###J	
⚠ D 8711	S1WB(A)60SD			
D 8717	1SS357	CAPACITORS		
		C 7500,7520,7600,7634	CFTLA394J50	
D 8718	UDZS5R1(B)	C 7501	CEAT332M25	
		C 7502,7521	CEAT222M25	
MISCELLANEOUS		C 7505,7506,7522,7603	CKSRYB103K50	
⚠ L 8701 LINE FILTER	XTF3004	C 7507,7508	CEAT221M25	
H 8701,8702 FUSE CLIP	AKR7001			
⚠ JA 8701 AC INLET ASSY	ADX7464	C 7523	CEAT221M16	
KN 8701 WRAPPING TERMINAL	VNF1084	C 7601	CEAT472M16	
KN 8702,8703 SCREW PLATE	VNE1948	C 7602	CEAT222M16	
		C 7604,7613,7626	CKSRYB103K50	F
⚠ RY 8702 POWER RELAY	ASR7022	C 7605,7606,7624	CEAT101M16	
⚠ T 8701 STANDBY TRANSFORMER	ATT7040			
⚠ CN 8702 CONNECTOR(VH)	B3P5-VH			
CN 8711 PLUG(5P)	KM200NA5			

Mark No. Description

C 7611
C 7612
C 7614
C 7621
C 7622

C 7623
C 7625
C 7628,7632
C 7629

Part No.

CEAT102M35
CEAT471M35
CEAT100M50
CEANP101M35
CEAT101M35

CEAT221M35
CEAT470M50
CCSRCH102J50
CFTLA104J50

Mark No. Description

C 7275,7276

C 7277,7278

Part No.

CEAT221M16

CCSRCH102J50

**B DIODE ASSY
SEMICONDUCTORS**

⚠ D 7400,7401

LN6SB60-4003

MISCELLANEOUS

CN 7400 CONNECTOR
7400,7401 HEAT SINK B
7402,7403 SCREW
JP 7401 3P HOUSING ASSY

B3P-VH
ANH1021
IBZ30P080FCC
ADX7649

RESISTORS

R 7402
Other Resistors

RD1/4MUF100J
RS1/4SA##J

CAPACITORS

C 7400,7401
C 7402,7403

ACH7270
CFTLA104J2A

**B REG ASSY
SEMICONDUCTORS**

⚠ IC 7300,7301
⚠ IC 7302,7303
⚠ Q 7300
⚠ Q 7301
Q 7302,7308

HA17431GLTPA
NJM2746V
2SD2083(Y)
2SB1383(Y)
2SD1857

Q 7303,7307
Q 7304
Q 7306
Q 7309
Q 7310

2SB1236
RT1N241M
RT1P241M
2SC4154
2SA1602A

D 7302,7303
D 7304,7307
D 7306,7309,7350,7352
D 7308,7310
D 7351

PTZ11(B)
UDZS2R4(B)
1SS352
1SR154-400
UDZS18(B)

UDZS20(B)
1SS352
PTFM04BB222Q2N34B0

D 7353
D 7355
⚠ TH 7300

MISCELLANEOUS

H 7300-7303 FUSE CLIP
CN 7303 4P-TOP POST(VH)
CN 7306 PLUG(4P)
CN 7308 CONNECTOR
JH 7300 PCB BINDER

AKR7001
B4P-VH
KM200NA4
B3P-VH
VEF1040

⚠ P 7300,7301 PROTECTOR(500MA)

AEK7005

RESISTORS

R 7302,7303
R 7306,7307
R 7308-7311
R 7312-7315
R 7318,7319

RS2LMF222J
RS2LMF472J
RS1/4SA333J
RN1/16SE2702D
RS1/10S473J

R 7322,7323
R 7324,7325
R 7326-7329
R 7332,7333

RS2LMF152J
RS1/10S100J
RS1LMF332J
RN1/10SE8202D

**ICE REG ASSY
SEMICONDUCTORS**

⚠ IC 7251
⚠ IC 7252
⚠ IC 7271
⚠ IC 7272
⚠ Q 7201

NJM78M12FA
NJM79M12FA
NJM78M05FA
NJM79M05FA
RSQ035P03

⚠ Q 7202
Q 7203,7204
Q 7205,7222
⚠ Q 7211
⚠ Q 7212

RSQ035N03
RT1N431M
RT1P431M
2SD1763A
2SB1186A

Q 7221
Q 7241
Q 7242
⚠ D 7201-7204,7211,7212
D 7205,7206,7245

RT1N241M
2SD1763A
2SC4154
1SR154-400
1SS352

D 7213,7214
D 7215,7216
⚠ D 7241-7244,7251-7254
D 7247
⚠ D 7248

HZU7R5(B1)
1SR154-400
1SR154-400
UDZS12(B)
PTZ15(B)

⚠ D 7249
D 7255,7256,7275,7276
⚠ D 7271-7274

HZU12(B2)
1SS357
1SR154-400

MISCELLANEOUS

H 7201-7204,7241,7242 FUSE CLIP
H 7251-7254 FUSE CLIP
CN 7201 8P TOP POST
CN 7241 PLUG(2P)
CN 7251 PLUG(6P)

AKR7001
AKR7001
B8B-EH
KM200NA2
KM200NA6E

CN 7271 PLUG(4P)
CN 7302 PLUG(6P)
JH 7251-7253 PCB BINDER

KM200NA4
KM200NA6R
VEF1040

RESISTORS

R 7211,7213
R 7241
R 7255,7256
Other Resistors

RD1/4MUF102J
RS1/4S152J
RS1/10SOR0J
RS1/16S##J

CAPACITORS

C 7200,7240,7250,7270
C 7201,7202
C 7211-7215,7219,7245
C 7217,7218,7242,7253
C 7221,7246

CFTLA394J50
CEAT102M16
CEAT100M50
CKSRYB103K50
CEAT470M25

C 7241,7251,7252
C 7254,7273,7274
C 7255,7256
C 7271,7272

CEAT222M25
CKSRYB103K50
CEAT221M25
CEAT222M16

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